

MEMOIRS OF THE BOTANICAL SURVEY OF
SOUTH AFRICA
MEMOIRS VAN DIE BOTANIESE OPNAME
VAN SUID-AFRIKA

No. 52

1986

A PLANT ECOLOGICAL BIBLIOGRAPHY
AND THESAURUS
FOR SOUTHERN AFRICA
UP TO 1975

A.P. BACKER
D.J.B. KILICK
and
D. EDWARDS

Republic of South Africa



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FOREWORD

This memoir consists of two parts, a plant ecological bibliography and an ecological thesaurus—for southern Africa up to 1975. Although clearly related, the parts are so different in character and scope that I shall deal with them separately.

The appearance of the bibliography is a significant event for all those interested in the ecology of the southern African subcontinent. The work includes Angola, Zambia, Malawi, Zimbabwe, Mozambique and all countries southwards. In this respect the bibliography is geographically more comprehensive than most of the other standard works published by the Botanical Research Institute. This approach is an acknowledgement of the inherent unity and strong interrelationships of the vegetation of these regions which, due to the geographical and political features of the area, have often not been sufficiently taken into account.

Work on the bibliography started officially in 1969 and, after fifteen years of painstaking but somewhat intermittent work, it is gratifying to see the bibliography finally published. In its preparation the most modern approaches to literature referencing were employed. The basis for an ongoing databank of ecological references (ESLI) for southern Africa was concurrently laid, which should ensure that the future needs of ecologists for an up to date literature reference service will be met. The bibliography which comprises 4 242 references will be of great value to all ecologists working on the vegetation of southern Africa, particularly in view of the current national programmes on biome research. Ecologists will now have at their finger-tips all or nearly all references to the geographical areas or fields of ecology which they are studying. Time-consuming literature search will be eliminated which is highly desirable because of the present need for greater efficiency and productivity. From 1985 onwards ecologists will be able to use the Institute's ESLI (Ecology Section Literature Index) data base for their reference requirements.

Thesaurus, according to the *Oxford Dictionary*, is the Greek word for 'store' or 'storehouse' from which the more specific meaning of a 'treasury or storehouse of knowledge as a dictionary, encyclopaedia or the like' grew. The present ecological thesaurus is therefore most aptly named, seeing that it presents a strongly condensed and organized hierarchical cross-referenced selection of ecological key words which, together, provide a potted summary of vegetation and experimental ecological concepts and terms.

The work was conceived out of the need to organize the many references contained in the manuscript of the bibliography into useful groupings. As the work on the thesaurus developed it was realized that its scope had far exceeded the initial purpose for which it was designed and that it had become a tool potentially useful to ecologists outside the Botanical Research Institute. For this reason it was decided to publish it together with the bibliography. Despite meticulous work by the compilers, errors will undoubtedly be found and concepts challenged. It is, therefore, foreseen that the thesaurus will need regular updating, as shortcomings and omissions are discovered. Users are invited to share their experience and views with others by making constructive suggestions for improvements to be incorporated in a future edition.

The authors and their helpers over the years are to be congratulated on the production of what will undoubtedly be a standard work in the *Memoir* series. I look forward to the appearance of the next and probably final edition covering the period up to 1985.

B. DE WINTER

Director: Botanical Research Institute

Pretoria, December 1985

ABSTRACT

BACKER, A.P., KILLICK, D.J.B. & EDWARDS, D., 1986. A plant ecological bibliography and thesaurus for southern Africa up to 1975. *Memoirs of the Botanical Survey of South Africa* No. 52, pp. 216.

A plant ecological bibliography for southern Africa up to 1975 has been compiled from available references. The 4 242 references were incorporated into a computer data base (ESLI) and the IBM Storage and Information Retrieval System (STAIRS) programme was used to sort the author index and to select and sort references under subject headings to form the subject index. The subject categories are as follows: applied ecology, autecology, environment, palaeoecology, physiognomy, reference works and maps, synecology and vegetation descriptions. In the ecological thesaurus the terms are hierarchically arranged in accordance with the Universal Decimal Classification System. All keywords used for sorting references into the subject indexes are included in the thesaurus.

UITTREKSEL

'n Plant ekologiese bibliografie vir suider Afrika tot 1975 is van beskikbare verwysings saamgestel. Die 4 242 verwysings is op 'n rekenaar databasis (ESLI) opgeneem. Die IBM 'Storage en Information Retrieval System (STAIRS)' program is gebruik om die outeursindeks te sorteer en die onderwerpe uit te kies en te sorteer volgens onderwerpsopskrifte om die onderwerpsindeks te vorm. Die onderwerpe is soos volg: outekologie, omgewing, toegepaste ekologie, palaeoekologie, fisiognomie, verwysingsbronne en kaarte, sinekologie en plante-groeibeskrivings. In die ekologiese thesaurus word terme hierargies gerangskik volgens die Universele Desimale Klassifikasie. Alle sleutelwoorde wat gebruik is om verwysings uit te sorteer vir die onderwerpsindekse word in die thesaurus ingesluit.

PART 1.— PLANT ECOLOGICAL BIBLIOGRAPHY

INTRODUCTION

Because of the strong involvement of the Botanical Research Institute in plant ecological studies it was considered necessary to produce an ecological bibliography for southern Africa. By southern Africa is meant southern Africa in its broad and systematic sense, i.e. South Africa and South Tropical Africa. The region covered by this bibliography is the Republic of South Africa (including the independent states and homelands), South West Africa/Namibia, Swaziland, Lesotho, Botswana, Zimbabwe, Zambia, Mozambique, Malawi and Angola.

At the start of research projects, ecologists require literature reference relating to the areas which they intend studying. Usually this is time-consuming work involving much bibliographic research and reliance on the memory of library staff. In addition to its own requirements, the Institute frequently caters for the reference requirements of other organizations such as universities, the CSIR, conservation organizations and other institutes of the Department of Agriculture and Water Supply. In fact, some of these organizations have already produced specific bibliographies based to a varying extent on the manuscript of the present general bibliography. From what has been said and the fact that ecological research has intensified in recent years, it should be clear that there is a real need for an ecological bibliography.

Since the beginning of their botanical careers the last two authors have kept and maintained fairly exhaustive card indexes to the literature of southern African ecology. The first step was to combine the two card indexes. The next step was to search the literature to bring the bibliography up to date to 1975. The bibliography was then roneoed and sent to ecologists in the RSA for additions and corrections. Ultimately a reasonably comprehensive bibliography of 4 242 references was produced. Most of the entries were then checked for accuracy and some alterations were made to the entry format of certain categories of bibliographic reference.

This bibliography is presented in two parts, an author index and a subject index. The author index is arranged alphabetically and chronologically and includes ecological references and vegetation maps up to 1975. The subject index is similarly arranged and is based on the Universal Decimal Classification (UDC) system using groupings of hierarchical UDC numbers as subject headings. Subjects that are of primary and secondary ecological importance have been covered in this bibliography. Subjects of tertiary importance (e.g. flora of southern Africa) have not necessarily been included.

The ecological bibliography for southern Africa forms part of the Ecology Section Literature Index (ESLI) data base using the IBM System/370 computer. The IBM Storage and Information Retrieval System (STAIRS) programme package which is available for sorting and retrieving references, was used to sort the author index and select and sort references under various subject headings to form the subject index. Space precludes a subject index containing all the thesaurus terms, however, references can be retrieved directly from the ESLI data base using these terms, which include geographical regions, biomes etc. (see thesaurus).

In a work of this kind there are bound to be errors, omissions, inconsistencies and incomplete references, the last-named being due to non-availability of the relevant publications in RSA libraries. It would be appreciated if readers could bring any imperfections to the attention of the BRI, so that they can be rectified in a proposed second edition which will cover the period up to 1985.

A final word. The preparation of a bibliography is not the simple operation it might appear to be. This is largely due to the many types of bibliographic reference involved and the fact that there is no international standardized system of reference entry. The relevant ISO Standard 690 for bibliographical references tends to concentrate on what data should be included in a reference rather than on how it should be set out.

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- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Setaria neglecta*, *Stipa dregeana* & *Melica decumbens*. Pattern 2. Map 3. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Antheophora pubescens*, *Stipagrostis uniplumis*, *Cenchrus ciliaris*, *Schmidtia bulbosa* & *Aristida curvata*. Pattern 3. Map 4. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Stipagrostis obtusa*, *Sporobolus lampranthus*, *Panicum lanipes*, *Aristida anomala*, *Stipagrostis brevifolia* & *Eragrostis bicolor*. Pattern 4. Map 5. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Eragrostis bergiana*, *E. obtusa*, *Tragus koelerioides* & *Aristida diffusa* var *burkei*. Pattern 5. Map 6. Acocks, J.P.H. Pretoria, Botanical Research Institute.

- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Fingerhuthia sesleriiformis*, *Tetrachne dregei*, *Pennisetum sphacelatum* & *P. thunbergii*. Pattern 6. Map 7. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Danthonia disticha*, *Danthonia purpurea*, *Hordeum capense* & *Koeleria cristata*. Pattern 7. Map 8. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Chaetobromus dregeanus*, *Eragrostis spinosa*, *Eragrostis cyperoides* & *Ehrharta barbinodis*. Pattern 8. Map 9. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Ehrharta calycina*, *Ehrharta melicoides*, *Ehrharta capensis* etc & *Ehrharta villosa*. Pattern 9. Map 10. Acocks, J.P.H. Pretoria, Botanical Research Institute.
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- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Setaria nigrirostris*, *S. holstii*, *S. woodii* & *Tetragonia robusta*. Map 14. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
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- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Stipagrostis obtusa*, *Sporobolus lampranthus*, *Panicum lanipes*, *Aristida anomala*, *Stipagrostis brevifolia* & *Eragrostis bicolor*. Pattern 4. Map 5. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Eragrostis bergiana*, *E. obtusa*, *Tragus koelerioides* & *Aristida diffusa* var *burkei*. Pattern 5. Map 6. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Fingerhuthia sesleriiformis*, *Tetrachne dregei*, *Pennisetum sphaecelatum* & *P. thunbergii*. Pattern 6. Map 7. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Danthonia disticha*, *Danthonia purpurea*, *Hordeum capense* & *Koeleria cristata*. Pattern 7. Map 8. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Chaetobromus dregeanus*, *Eragrostis spinosa*, *Eragrostis cyperoides* & *Ehrharta barbinodis*. Pattern 8. Map 9. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Ehrharta calycina*, *Ehrharta melicoides*, *Ehrharta capensis* etc & *Ehrharta villosa*. Pattern 9. Map 10. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Panicum lanipes* & *Arundinella nepalensis*. Map 12. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Secale africanum* & *Eragrostis chloromelas*. Map 13. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Setaria nigrirostris*, *S. holstii*, *S. woodii* & *Tetragonia robusta*. Map 14. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Sporobolus fimbriatus*. Map 15. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Tetrachne dregei* & *Sporobolus virginicus*. Map 16. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Themeda triandra*. Map 17. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Tricholaena capensis* & *Poa binata*. Map 18. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Tristachya hispida*. Map 19. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Andropogon appendiculatus*. Map 20. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Brachypodium flexum* & *Stipagrostis uniplumis*. Map 21. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Dicanthium papillosum*, *Danthonium disticha* & *Danthonia dura*. Map 22. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Diplachne fusca*. Map 23. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Fingerhuthia sesleriiformis*. Map 24. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Imperata cylindrica*. Map 25. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Leersia hexandra*. Map 26. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Odysea paucinervis* & *Pennisetum sphaecelatum*. Map 27. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, n.d. Distribution of *Danthonia glauca* & *Pennisetum thunbergii*. Map 28. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961a. Distribution of *Stipagrostis obtusa* & *Urochloa mosambicensis*. Map 3. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961b. Distribution of *Antheophora pubescens* & *Chaetobromus dregeanus*. Map 4. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961c. Distribution of *Panicum maximum* & *Ehrharta barbinodis*. Map 6. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961d. Distribution of *Ehrharta capensis* & *Echinochloa holubii*. Map 7. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961e. Distribution of *Ehrharta melicoides* & *Setaria neglecta*, *Sporobolus lampranthus* & *Brachiaria brizantha*. Map 8. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961f. Distribution of *Eragrostis denudata* & *Stenotaphrum secundatum*. Map 9. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961g. Distribution of *Panicum coloratum*. Map 11. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961h. Distribution of *Phragmites communis* & s. limit of *P. mauritanicus*. Map 29. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961i. Distribution of *Sporobolus iocladius*. Map 33. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961j. Distribution of *Stipagrostis brevifolia* & *Panicum deustum*. Map 34. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961k. Distribution of *Stipagrostis namaquensis*. Map 35. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961l. Distribution of *Dactyloctenium australe*, *Danthonia purpurea* & *Chrysopogon montanus* var. *tremulus*. Map 36. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961m. Distribution of *Aristida engleri*, *A. dasydesmis*, *Portulacaria afra*. Map 37. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961n. Distribution of *Cenchrus ciliaris*. Map 39. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961o. Distribution of *Stipa dregeana* var *elongata*. Map 40. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961p. Distribution of *Ehrharta calycina* & *Urochloa stolonifera*. Map 41. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.

- SOUTH AFRICA, DISTRIBUTION, 1961q. Distribution of *Hyparrhenia hirta* & *H. buchananii*. Map 42. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961r. Distribution of *Aristida diffusa* var. *burkei*. Map 44. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961s. Distribution of *Eragrostis obtusa*. Map 47. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961t. Distribution of *Heteropogon contortus*. Map 48. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961u. Distribution of *Hordeum capense*. Map 49. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961v. Distribution of *Puccinellia* spp. Map 50. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961w. Distribution of *Setaria flabellata*. Map 51. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1961x. Distribution of *Limeum aethiopicum*. Map 53. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962a. Distribution of *Anthoxanthum dregeanum*, *Stipagrostis fastigiata* & *Setaria sphacelata*. Map 2. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962b. Distribution of *Digitaria eriantha*. Map 5. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962c. Distribution of *Helictotrichon namaquense* & *Hemarthria altissima*. Map 10. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962d. Distribution of *Eragrostis bicolor*. Map 30. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962e. Distribution of *Ehrharta villosa*, *Ischaemum glaucostachyum* & *Setaria appendiculata*. Map 31. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962f. Distribution of *Panicum stapfianum*. Map 32. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962g. Distribution of *Bothriochloa radicans*. Map 38. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962h. Distribution of *Koeleria cristata*. Map 43. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962i. Distribution of *Danthonia stricta*. Map 45. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962j. Distribution of *Eragrostis lehmanniana*. Map 46. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962k. Distribution of *Aster barbatus*. Map 52. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962l. Distribution of *Salsola tuberculata*. Map 54. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962m. Distribution of *Tetragonia arbuscula*. Map 55. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
- SOUTH AFRICA, DISTRIBUTION, 1962n. Distribution of *Trifolium africanum* & *T. burchellianum*. Map 56. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
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- Dicanthium papillosum*, *Danthonium disticha* & *Danthonia dura*. Map 22. 1:3 000 000. Acocks, J.P.H. Pretoria, Botanical Research Institute.
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PART 2.— ECOLOGICAL THESAURUS

The Ecological Thesaurus has two main functions.

- (a) as an indexing aid for reference retrieval from the Ecology Section Literature Index (ESLI) data base, which was developed by the Botanical Research Institute;
- (b) as an aid to understanding the hierarchical relationships of concepts listed according to sense.

The hierarchical arrangement of concepts, however, led to:

- (i) concepts with broad meanings having too many words for efficient retrieval;
- (ii) each rank in the hierarchy having to be encoded.

The use of Universal Decimal Classification numbers for the higher ranks overcame these problems. The UDC numbers and their meanings are listed in both the Ecological Thesaurus and a Classified Subject Index. The Classified Subject Index and Ecological Thesaurus, singly or in combination, provide the computer codes by which literature is retrieved from the data bank, namely keywords.

1 DEFINITIONS

1.1 Classified Subject Index (CSI)

The Classified Subject Index is a classified index of broad ecological subject categories and appropriate Universal Decimal Classification (UDC) numbers. See Appendix 1.

1.2 Ecological Thesaurus (ET)

The Ecological Thesaurus is an alphabetical listing of concepts cross-referenced hierarchically with status and relationships indicated.

1.3 Concept

A concept is an expression which is listed alphabetically in the Ecological Thesaurus and, if the expression is a subject heading, also classified in the Classified Subject Index.

- (a) A Broad Concept (BC) is a subject category hierarchically arranged in the Classified Subject Index with the appropriate Universal Decimal Classification number as 'keyword'. It is also listed alphabetically in the Ecological Thesaurus.
- (b) A Narrow Concept (NC) is a subdivision of one or more Broad Concepts, alphabetically arranged in the Ecological Thesaurus. Keyword(s) are derived from the Narrow Concept.

- (c) A Related Concept (RC) is an expression either related to, or synonymous with a Broad or Narrow Concept and therefore not used for retrieval.

1.4 Keyword Indicator (USE)

USE indicates the keyword(s) that are to be used to retrieve literature. Keywords are represented by Universal Decimal Classification numbers for Broad Concepts and words for Narrow Concepts and may be the same word as the Narrow Concept.

1.5 Term

The expressions listed under every concept in the Ecological Thesaurus are associated with the concept and are called terms. Each term is also listed as a concept with its own related term(s). In this way cross-referencing is accomplished. The hierarchical status and relationship of terms to concepts are indicated by the following notations to identify the terms:

- (a) AT indicates an Applicable Term. It is a term applicable for retrieval and is either related or synonymous with a Broad, Narrow or Related Concept.
- (b) BT indicates a Broader Term. It is a term with a broader meaning than a Broad or Narrow Concept.
- (c) NT indicates a Narrower Term. It is a term with a narrower meaning than a Broad or Narrow Concept.
- (d) RT indicates a Related Term. It is a term similar to a Broad, Narrow or Related Concept. It is not used for retrieval.
- (e) ST indicates a Synonymous Term. It is a synonym of a Broad or Narrow Concept and is not used to retrieve literature.

2 SUMMARY OF NOTATIONS

The following is a schematic summary of the terms and concepts and their status as used in the Ecological Thesaurus.

BC Broad Concept	Retrieval Concepts	Status of concepts
NC Narrow Concept		
RC Related Concept		
Non retrieval concept		
USE Keyword indicator		
AT Applicable Term	Relationship of concepts (cross references)	
BT Broader Term		
NT Narrower Term		
RT Related Term		
ST Synonymous Term		

3 CROSS-REFERENCING IN THE ECOLOGICAL THESAURUS

The applicable-, related- and synonymous terms of every concept are listed for cross-referencing purposes. Each retrieval concept *must* have a Broader and Narrower Term, which represent the Broad- and Narrow Concepts,

to indicate hierarchical rank, except for the top and bottom hierarchical levels. In the case of concepts composed of more than one word, the components that do not follow the hierarchical line of the concept (non-retrieval components) are cross-referenced uni-directionally. In all other cases cross-referencing is bi-directional. The following is a summary of how cross-referencing is accomplished:

Uni-directional cross-referencing		
<i>Concept a</i> (more than one word)	<i>Concept b</i> (Non-retrieval component)	<i>Used for retrieval:</i>
	AT	only AT

Bi-directional cross-referencing		
<i>Concept a</i>	<i>Concept b</i>	<i>Used for retrieval:</i>
AT	RT	only AT
AT	ST	only AT
AT	AT	both terms
BT	NT	both terms
RT	RT	neither term

EXAMPLES OF CROSS-REFERENCING

3.1 Two concepts, only one word used for retrieval

3.1.1 Retrieval by means of U.D.C. codes:

ILLUMINATION AT LIGHTING	RC			LIGHTING USE: 125 BT NT RT ILLUMINATION	BC
		AT	RT		

3.1.2 For geographical locations:
(a) if it is a synonym

IRISH REPUBLIC AT EIRE	RC			EIRE USE: (123 BT BRITISH ISLES ST IRISH REPUBLIC	BC
		AT	ST		

(b) if it is a related term

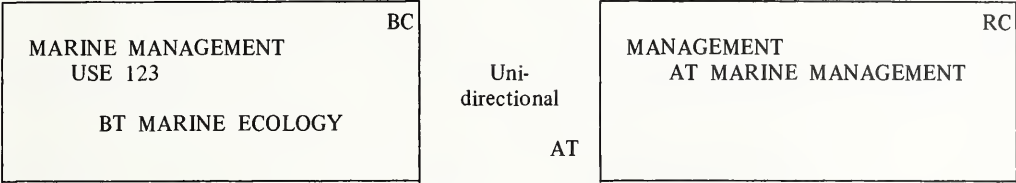
UNITED KINGDOM AT BRITISH ISLES	RC			BRITISH ISLES USE: (12 NT EIRE RT UNITED KINGDOM	BC
		AT	RT		

3.2 Retrieval by means of a keyword



3.3 Compound Concepts (more than one word)

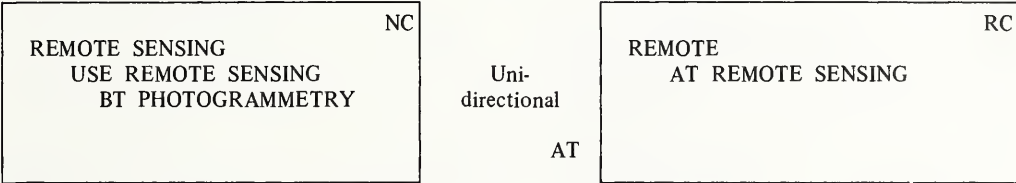
3.3.1 Retrieval by means of UDC codes:



DO NOT mention management
or marine on this card

+
similar card for MARINE

3.3.2 Retrieval by means of Keywords:



+
similar card for SENSING

3.4 To cross-reference related terms (neither of which is used)



NOTE: The broad subject categories into which the thesaurus terms are divided appear in parentheses.

THESAURUS

AARDVARK	NC	AGROCLIMATOLOGY	RC
USE AARDVARK		AT BIOCLIMATOLOGY	
BT MAMMAL			
ABSORPTION	RC	AIR	RC
AT SOUND ABSORPTION		AT AIR POLLUTION	
		AT AIRBORNE PARTICLE	
ABUNDANCE	NC	AT AIR LAYER	
USE ABUNDANCE		AT AIR PHOTO	
BT STATISTICAL PARAMETER		AT AIR TEMPERATURE	
RT SPECIES ABUNDANCE		RT AERIAL	
A – C HORIZON (Environment)	BC	AIRBORNE PARTICLE	NC
USE 581 52:631 472 6		USE AIRBORNE PARTICLE	
BT SOIL PROFILE		BT WIND	
NT DEFINITION		NT SALT	
ACTINOMETER	NC	AIR LAYER	NC
USE ACTINOMETER		USE AIR LAYER	
BT PRACTICAL METEOROLOGY		BT WIND	
ADAPTATION	RC	AIR PHOTO	NC
RT ADJUST		USE AIR PHOTO	
		BT PHOTOGRAPHY	
ADJUST	RC	NT MINIMUM AREA	
AT PLANT ADJUSTMENT		AIR POLLUTION	NC
		USE AIR POLLUTION	
AERIAL	RC	BT PLANT/VEGETATION INDICATOR	
RT AIR		NT AIR POLLUTION INDEX	
AFFORESTATION	NC	AIR POLLUTION INDEX	NC
USE AFFORESTATION		USE INDEX	
BT FORESTRY		BT AIR POLLUTION	
AT RE-VEGETATION			
AFRO-ALPINE	RC	AIR TEMPERATURE	BC
AT AFRO-ALPINE BIOME		USE 581 52:551 524 (Environment)	
		BT RADIATION AIR TEMPERATURE	
AGRICULTURE	BC	NT APPARATUS	
USE 6:577 4:63 (Applied ecology)		NT WARM	
BT APPLIED ECOLOGY		ALGA	BC
NT DRAINAGE		USE 582 26 (Autecology)	
NT HORTICULTURE		BT SYSTEMATIC BOTANY	
NT IRRIGATION		BT LOWER ORGANISM	
NT LAND RECLAMATION		BT SOIL BIOLOGY	
NT FORAGE GRASS		NT DIATOM	
NT FORESTRY		NT RHODOPHYCEAE	
NT GAME MANAGEMENT		NT CHLOROPHYCEAE	
NT CROP			

ALLELOPATHY	NC	ANTHOPHYTA	RC
USE ALLELOPATHY		USE 1st GENUS NO. IN DYER &	
BT PLANT EXUDATE		88888 PUT IN TAXON FIELD	
ALPHABETIC REFERENCE WORK	BC	APPARATUS	NC
USE ((03 (Reference works and maps)		USE APPARATUS	
BT REFERENCE WORK		BT AUTECOLOGICAL REQUIREMENT	
NT DICTIONARY GLOSSARY		BT ANALYTICAL REQUIREMENT	
NT ENCYCLOPAEDIA		BT SYNTHETIC REQUIREMENT	
ALTITUDE	NC	NT POPULATION PLOTTER	
USE ALTITUDE		NT SCRIBE	
BT RELIEF		NT PSYCHROMETER	
ALUMINIUM	NC	BT AIR TEMPERATURE	
USE ALUMINIUM		NT NEUTRON PROBE	
BT MINERALOGY		NT STAVE-POINT	
BT REACTION		NT HYPSONETER	
BT CATION EXCHANGE		APPLIED	RC
BT INORGANIC SOIL COMPONENT		AT APPLIED ECOLOGY	
AMMONIA	NC	APPLIED ECOLOGY	BC
USE AMMONIA		USE 6:577 4 (Applied ecology)	
BT INORGANIC SOIL COMPONENT		NT AGRICULTURE	
ANALYSIS	BC	NT ECOLOGICAL CONSERVATION	
USE 581 524:167 2 (Synecology)		NT ENVIRONMENTAL MANAGEMENT	
AT MULTIVARIATE ANALYSIS		AQUATIC	RC
AT SOIL ANALYSIS		NT AQUATIC VEGETATION	
AT UNIVARIATE ANALYSIS		AT AQUEOUS VAPOUR	
BT SYNECOLOGY		AT AQUATIC BIOME	
NT ANALYTICAL REQUIREMENT		RT WATER	
NT REMOTE SENSING		AQUATIC VEGETATION	BC
NT SAMPLING		USE 577 472 (Vegetation descr.)	
NT STATISTICAL PARAMETER		NT ESTUARY	
ANALYTICAL REQUIREMENT	BC	NT LAKE	
USE 581 524:167 2.001 2 (Synecology)		NT RIVER	
BT ANALYSIS		NT WETLAND	
NT APPARATUS		NT MARINE	
ANATOMY	RC	AQUEOUS VAPOUR	BC
AT ECOLOGICAL ANATOMY		USE 581 52:551 57 (Environment)	
ANIMAL	BC	BT METEOROLOGY	
USE 581 52:581 073 (Environment)		NT CLOUD	
BT BIOTIC FACTOR		NT CONDENSATION	
NT BIRD		NT EVAPORATION	
NT MAMMAL		NT FOG MIST	
NT WILD ANIMAL		NT HUMIDITY	
NT GRAZE		NT PRECIPITATION	
NT INSECT		NT SOIL MOISTURE	
NT EARTHWORM		ARCHITECTURE	RC
NT SNAIL		RT FORM	
NT FISH		AREA	RC
RT INVERTEBRATA		AT SPECIES-AREA	
ANT	NC	AT MINIMUM AREA	
USE ANT		ARID	NC
BT INSECT		USE ARID	
ANTELOPE	NC	BT CLIMATE TYPE	
USE ANTELOPE		ARSENIC	NC
BT MAMMAL		USE ARSENIC	

BT SPOIL		NT PLANT MORPHOLOGY	
BT INORGANIC SOIL COMPONENT		NT PLANT – WATER RELATION	
		NT SPECIES DISTRIBUTION MAPPING	
ASPECT	NC	NT PHYSICAL FACTOR	
USE ASPECT			
BT RELIEF		AUTOMATIC CLASSIFICATION	RC
		AT CLUSTERING	
ASSESSMENT	RC	AUTUMN	RC
AT IMPACT ASSESSMENT		AT SEASON	
ASSOCIATION	RC		
AT ASSOCIATION THEORY			
AT SYNTAXONOMIC ASSOCIATION		BACILLARIOPHYTA	RC
AT ASSOCIATION MODEL		AT DIATOM	
AT ASSOCIATION ANALYSIS			
ASSOCIATION ANALYSIS	NC	BACTERIUM	BC
USE ASSOCIATION ANALYSIS		USE 582 231 (Autecology)	
BT MULTIVARIATE ANALYSIS		BT LOWER ORGANISM	
		BT SYSTEMATIC BOTANY	
ASSOCIATION MODEL	NC	NT VIRUS	
USE ASSOCIATION			
BT MODEL		BALANCE	RC
		AT WATER BALANCE	
ASSOCIATION THEORY	NC	BASAL COVER	NC
USE ASSOCIATION		USE BASAL	
BT SYNECOLOGICAL THEORY		BT COVER	
ATMOSPHERE	RC	BASALT	NC
AT ATMOSPHERIC PRESSURE		USE BASALT	
AT SOIL ATMOSPHERE		BT IGNEOUS ROCK	
AT ATMOSPHERIC STRUCTURE			
ATMOSPHERIC PRESSURE	BC	BEACH	RC
USE 581 52:551 54 (Environment)		USE SHORE	
BT METEOROLOGY			
ATMOSPHERIC STRUCTURE	NC	BELT	RC
USE ATMOSPHERIC STRUCTURE		AT BELT TRANSECT	
BT ATMOSPHERIC STRUCTURE			
MECHANICS THERMODYNAMICS		BELT TRANSECT	NC
		USE BELT TRANSECT	
ATMOSPHERIC STRUCTURE MECHANICS		BT QUADRAT	
THERMODYNAMICS	BC	BIBLIOGRAPHY	BC
USE 581 52:551 51 (Environment)		USE 016 (Reference works and maps)	
BT METEOROLOGY		NT REVIEW	
NT MECHANICS			
NT ATMOSPHERIC STRUCTURE		BIOCLIMATOLOGY	BC
NT THERMODYNAMICS		USE 581 52:551 586 (Environment)	
AUTECOLOGICAL REQUIREMENT	BC	BT CLIMATOLOGY	
USE 581 522.001 2 (Autecology)		RT AGROCLIMATOLOGY	
BT AUTECOLOGY			
NT APPARATUS		BIOENERGETICS	BC
		USE 577 4:5773 (Autecology)	
AUTECOLOGY	BC	BT ECOSYSTEM	
USE 581 522 (Autecology)		NT ENTROPY	
BT PLANT ECOLOGY			
NT AUTECOLOGICAL REQUIREMENT		BIOGEOCOENOLOGY	RC
NT ECOLOGICAL ANATOMY		AT ECOSYSTEM	
NT ECOPHYSIOLOGY			
NT PHENOLOGY		BIOGRAPHY	BC
NT PLANT ADJUSTMENT		USE ((092 (Reference works and maps)	
NT PLANT MIGRATION		BT REFERENCE WORK	

BIOLOGICAL CONTROL USE BIOLOGICAL CONTROL BT ECOLOGICAL CONSERVATION	NC	WOODLAND/SAVANNA/SCRUB BIOME USE 5	BC
BIOLOGICAL FACTOR USE 581 52:631 484 (Environment) BT PEDOGENESIS NT SOIL-PLANT RELATIONSHIP	BC	BIOMETRY USE 574:51:578 087 1 (Synecology) BT BIOMATHEMATICS NT VARIABILITY	BC
BIOLOGY AT SOIL BIOLOGY AT BIOLOGICAL FACTOR AT BIOTIC FACTOR AT BIOLOGICAL CONTROL	RC	BIOSYSTEMATIC USE BIOSYSTEMATIC BT POPULATION ECOLOGY	NC
BIOMASS USE 577 4:578 087 75 (Autecology) BT ECOSYSTEM	BC	BIOTIC FACTOR USE 581 52:581 (Environment) BT ENVIRONMENT NT ANIMAL NT LOWER ORGANISM NT PLANT NT PLANT EXUDATE NT SYMBIOSIS	BC
BIOMATHEMATICS USE 574:51 (Synecology) NT BIOMETRY NT COMPUTER NT DATA PROCESSING NT FORMULA NT MODEL	BC	BIRD USE BIRD BT ANIMAL	NC
BIOME AT AFRO-ALPINE BIOME AT AQUATIC BIOME AT DESERT BIOME AT FOREST BIOME AT FYNBOS BIOME AT GRASSLAND BIOME AT KAROO BIOME AT WOODLAND/SAVANNA/SCRUB BIOME	RC	BLOWDOWN USE BLOWDOWN BT WIND	NC
AFRO-ALPINE BIOME USE 4	BC	BOG AT WETLAND	RC
AQUATIC BIOME USE 8	BC	BORON USE BORON BT CHEMICAL SOIL PROPERTY BT NUTRIENT CYCLING	NC
DESERT BIOME USE 7	BC	BRAUN-BLANQUET USE BRAUN-BLANQUET BT QUALITATIVE OBSERVATION RT ZURICH-MONTPELLIER SCHOOL	NC
FOREST BIOME USE 2	BC	BRIDGE AT BRIDGE POINT	RC
FYNBOS BIOME USE 1	BC	BRIDGE POINT USE BRIDGE POINT BT PLOTLESS	NC
GRASSLAND BIOME USE 3	BC	BRYOPHYTA USE 1st GENUS NO. IN DYER & 88888 PUT IN TAXON FIELD	RC
KAROO BIOME USE 6	BC	BULK-DENSITY DETERMINATION USE BULK-DENSITY DETERMINATION BT SOIL SURVEY AT DENSITY	NC
SAVANNA BIOME AT WOODLAND/SAVANNA/SCRUB BIOME	RC	BUOYANCY TECHNIQUE USE BUOYANCY TECHNIQUE BT SAMPLING	NC
SCRUB BIOME AT WOODLAND/SAVANNA/SCRUB BIOME	RC		

BURN	NC	CHART	NC
USE BURN		USE CHART	
BT FIRE		BT CHART. MAP. PLAN	
BUSHVELD	RC	CHART. MAP. PLAN	BC
AT SAVANNA		USE 912 43 (Reference works and maps)	
AT WOODLAND		BT GRAPHIC AND CARTOGRAPHIC REPRESENTATION	
		NT CHART	
		NT MAP	
CACTUS	NC	NT PLAN	
USE CACTUS			
BT FORAGE PLANT		CHECK-LIST	NC
		USE CHECK-LIST	
CALCIUM	NT	BT PHYTOGEOGRAPHY	
USE CALCIUM			
BT ECOPHYSIOLOGY		CHEMICAL	RC
		AT CHEMICAL SOIL PROPERTY	
CALCRETE	NC	AT CHEMICAL FACTOR	
USE CALCRETE			
BT SEDIMENTARY ROCK		CHEMICAL CONTROL	NC
		USE CHEMICAL CONTROL	
CANOPY	NC	BT ECOLOGICAL CONSERVATION	
USE CANOPY			
BT COVER		CHEMICAL FACTOR	BC
NT CANOPY INDEX		USE 581 52:631 483 (Environment)	
		BT PEDOGENESIS	
CANOPY INDEX	NC	NT LEACH	
USE INDEX			
BT CANOPY		CHEMICAL SOIL PROPERTY	BC
		USE 581 52:631 41 (Environment)	
CAPILLARY	NC	BT SOIL	
USE CAPILLARY		NT BORON	
BT SOIL MOISTURE		NT COLLOIDAL SOIL PROPERTY	
BT SOIL WATER		NT INORGANIC SOIL COMPONENT	
		NT ION EXCHANGE	
CARBON	RC	NT ORGANIC SOIL COMPONENT	
AT CARBON DIOXIDE		NT SOIL REACTION pH	
CARBON DIOXIDE	NC	CHLORIDE	NT
USE CARBON DIOXIDE		USE CHLORIDE	
BT ECOPHYSIOLOGY		BT INORGANIC SOIL COMPONENT	
		AT SALT	
CARBOHYDRATE	NT	AT SALT CONTENT	
USE CARBOHYDRATE			
BT ECOPHYSIOLOGY		CHLOROPHYCEAE	NC
		USE CHLOROPHYCEAE	
CATCHMENT	NC	BT ALGA	
USE CATCHMENT			
BT HYDROGRAPHY		CHLOROPHYLL	NT
		USE CHLOROPHYLL	
CATION EXCHANGE	BC	BE ECOPHYSIOLOGY	
USE 581 52:631 413 4 (Environment)			
BT ION EXCHANGE		CHROMIUM	NC
NT ALUMINIUM		USE CHROMIUM	
		BT INORGANIC SOIL COMPONENT	
CAVE	NC		
USE CAVE		CIRCADIAN	RC
BT LAND FORM		RT DAILY	
CERRADO	RC	CLASS	RC
AT SAVANNA		AT FORMATION CLASS	

CLASSIFICATION	RC	BT GROWTH FORM	
AT CLASSIFICATION THEORY		RT CREEPER	
AT LAND CLASSIFICATION AND USE			
AT SOIL CLASSIFICATION		CLOUD	BC
RT VEGETATION CLASSIFICATION		USE 581 52:551 576 (Environment)	
		BT AQUEOUS VAPOUR	
CLASSIFICATION THEORY	NC	CLUSTERING	NC
USE CLASSIFICATION		USE CLUSTERING	
BT SYNECOLOGICAL THEORY		BT PROGRAM	
NT PHYTOCENOSE		RT AUTOMATIC CLASSIFICATION	
CLAY MINERAL	NC	COAST	RC
USE CLAY MINERAL		AT SHORE	
BT COLLOIDAL SOIL PROPERTY		AT COASTAL FLAT	
CLEAR FELLING	RC	COASTAL FLAT	NC
AT DEFORESTATION		USE COASTAL FLAT	
CLEAR CUTTING	RC	BT LAND FORM	
AT DEFORESTATION		COLLOID	RC
CLIMATE TYPE	BC	AT COLLOIDAL SOIL PROPERTY	
USE 581 52:551 584 (Environment)			
BT CLIMATOLOGY		COLLOIDAL SOIL PROPERTY	BC
NT ARID		USE 582 52:632 414 (Environment)	
		BT CHEMICAL SOIL PROPERTY	
CLIMATIC VARIATION	BC	NT CLAY MINERAL	
USE 581 52:551 583 (Environment)		COMMENSALISM	NC
BT CLIMATOLOGY		USE COMMENSALISM	
NT PALAEOCLIMATOLOGY		BT SYMBIOSIS	
NT SEASON		COMMUNITY	RC
NT CLIMATIC VARIATION INDICATOR		AT COMMUNITY COMPETITION	
CLIMATIC VARIATION INDICATOR	NC	AT PHYTOCENOSE	
USE INDICATOR		RT COMMUNITY DYNAMICS	
BT CLIMATIC VARIATION		COMMUNITY COMPETITION	BC
CLIMATOLOGY	BC	USE 581 524 12 (Synecology)	
USE 581 52:551 58 (Environment)		BT SYNECOLOGY	
BT METEOROLOGY		COMMUNITY DYNAMICS	RC
NT BIOCLIMATOLOGY		AT PLANT SUCCESSION	
NT CLIMATE TYPE		COMPACTION	NC
NT CLIMATIC VARIATION		USE COMPACTION	
NT ENVIRONMENTAL INFLUENCE		BT MECHANICAL SOIL PROPERTY	
NT LATITUDINAL INFLUENCE		COMPETITION	RC
NT MICROCLIMATOLOGY		AT COMMUNITY COMPETITION	
NT REGIONAL CLIMATOLOGY		AT PLANT COMPETITION	
CLIMAX	RC	COMPONENT	RC
AT CLIMAX AND SERAL COMMUNITIES		AT INORGANIC SOIL COMPONENT	
CLIMAX AND SERAL COMMUNITIES	BC	AT ORGANIC SOIL COMPONENT	
USE 581 524 3:581 555 (Synecology)		COMPUTER	NC
BT PLANT SUCCESSION		USE COMPUTER	
NT CLIMAX COMMUNITY		BT COMPUTER. PROGRAMME. DATA	
NT SERAL COMMUNITY		PROCESSING	
CLIMAX COMMUNITY	BC	COMPUTER. PROGRAMME. DATA	
USE 581 524 3:581 555 2 (Synecology)		PROCESSING	BC
BT CLIMAX AND SERAL COMMUNITIES		USE 574:51:681 3 (Synecology)	
NT EDAPHIC CLIMAX			
CLIMBER	NC		
USE CLIMBER			

BT BIOMATHEMATICS		BT SYSTEMATIC BOTANY	
NT COMPUTER		CYCLE	NC
NT PROGRAMME		USE CYCLE	
NT DATA PROCESSING		AT NUTRIENT CYCLING	
CONDENSATION	BC	BT PHENOLOGY	
USE 581 52:551 574 (Environment)		NT DAILY CYCLE	
BT AQUEOUS VAPOUR		CYSTINE	BC
NT DEW		USE CYSTINE	
CONSERVATION	RC	BT ECOPHYSIOLOGY	
AT ECOLOGICAL CONSERVATION			
AT SOIL CONSERVATION			
CONTENT	RC	DAILY	RC
AT SALT CONTENT		AT DAILY CYCLE	
CONTINENTAL PHYTOSOCIOLOGY	RC	RT CIRCADIAN	
AT QUALITATIVE OBSERVATION		DAILY CYCLE	NC
CONTINUUM	RC	USE DAILY	
AT CONTINUUM THEORY		BT CYCLE	
CONTINUUM THEORY	NC	DATA	RC
USE CONTINUUM		AT DATA PROCESSING	
BT SYNECOLOGICAL THEORY		DATA PROCESSING	NC
CONTROL	RC	USE DATA PROCESSING	
AT SCRUB CONTROL		BT COMPUTER PROGRAMME DATA	
AT BIOLOGICAL CONTROL		PROCESSING	
CONVERGENCE	NC	DECIDUOUS	NC
USE CONVERGENCE		USE DECIDUOUS	
BT PHYLOGENY		BT PLANT FORM	
COPPER	NC	DECOMPOSITION	RC
USE COPPER		AT DECOMPOSITION MODEL	
BT PLANT/VEGETATION INDICATOR		DECOMPOSITION MODEL	NC
BT NUTRIENT CYCLING		USE DECOMPOSITION	
BT INORGANIC SOIL COMPONENT		BT MODEL	
CORRELATION	RC	DEFINITION	NC
AT HABITAT CORRELATION		USE DEFINITION	
AT SPECIES-CORRELATION		BT A-C HORIZON	
COVER	NC	DEFOLIATION	NC
USE COVER		USE DEFOLIATION	
BT STATISTICAL PARAMETER		BT FORAGE GRASS	
NT CANOPY		DEFORESTATION	NC
NT BASAL COVER		USE DEFORESTATION	
CREEPER	RC	BT FORESTRY	
AT CLIMBER		RT CLEAR FELLING	
CROP	NC	RT CLEAR CUTTING	
USE CROP		DELTA	NC
BT AGRICULTURE		USE DELTA	
NT CROP RESIDUE		BT RIVER	
CROP RESIDUE	NC	DENSITY	NC
USE CROP RESIDUE		USE DENSITY	
BT CROP		BT MECHANICAL SOIL PROPERTY	
CYANOPHYTA	BC	BT STATISTICAL PARAMETER	
USE 582 232 (Autecology)		BT STATISTICAL PARAMETER	
		AT BULK-DENSITY DETERMINATION	

DESERT	NC	DIVERSITY	NC
USE DESERT		USE DIVERSITY	
BT LAND FORM		BT STATISTICAL PARAMETER	
BT FORMATION CLASS		RT SPECIES DIVERSITY	
AT DESERT BIOME			
DESICCATION TOLERANT PLANT	RC	DOLERITE	NC
AT XEROPHYTE		USE DOLERITE	
		BT IGNEOUS ROCK	
DETERMINATION	RC	DOLOMITE	NC
AT ROCK DETERMINATION		USE DOLOMITE	
AT BULK-DENSITY DETERMINATION		BT MINERALOGY	
		BT SEDIMENTARY ROCK	
DEW	NC	DONGA	NC
USE 581 52:551 574 41 (Environment)		USE DONGA	
BT CONDENSATION		BT LAND FORM	
DIATOM	NC	DORMANCY	NC
USE DIATOM		USE DORMANCY	
BT ALGA		BT PHENOLOGY	
RT BACILLARIOPHYTA			
DICTIONARY	NC	DRAINAGE	BC
USE DICTIONARY		USE 6:577 4:631 62 (Applied ecology)	
BT DICTIONARY. GLOSSARY		BT AGRICULTURE	
		NT DYNAMICS	
DICTIONARY. GLOSSARY	BC	DRIZZLE	NC
USE ((038 (Reference works and maps)		USE DRIZZLE	
BT ALPHABETIC REFERENCE WORK		BT RAIN. DRIZZLE	
NT DICTIONARY			
NT GLOSSARY			
DICOTYLEDONAE	RC	DROUGHT	BC
USE 1st GENUS NO. IN DYER		USE 581 52:551 577 38 (Environment)	
& 88888 PUT IN TAXON FIELD		BT PRECIPITATION VARIATION	
		RT DRY SPELL	
DISPERSAL	RC	DRY SPELL	RC
AT SEED DISPERSAL		AT DROUGHT	
DISPERSION	RC	DUNE	NC
AT DISPERSION INDEX		USE DUNE	
		BT LAND FORM	
DISPERSION INDEX	NC	BT DUNE FOREST	
USE DISPERSION INDEX			
BT QUALITATIVE OBSERVATION		DWARF SHRUBLAND	NC
		USE DWARF SHRUBLAND	
DISPOSAL	RC	BT FORMATION CLASS	
AT SLUDGE DISPOSAL			
DISTRIBUTION	NC	DYNAMICS	NC
USE DISTRIBUTION		USE DYNAMICS	
AT SPECIES DISTRIBUTION MAPPING		BT DRAINAGE	
BT PLANT MIGRATION		RT COMMUNITY DYNAMICS	
BT STATISTICAL PARAMETER		RT VEGETATION DYNAMICS	
DISTURBANCE	NC	EARTH	RC
USE DISTURBANCE		AT EARTH STRUCTURE	
BT LAND CLASSIFICATION AND USE		AT EARTH FLOW	
AT SOIL DISTURBANCE		AT WORLD	
DIURNAL	NT	EARTH FLOW	NC
USE DIURNAL		USE EARTH FLOW	
BT EVAPORATION		BT EXTERNAL GEODYNAMICS	

EARTH STRUCTURE	BC	NT PRODUCTIVITY	
USE 581 52:551 1 (Environment)		NT FOREST	
BT GEOLOGY		NT MULTIDISCIPLINE	
		RT BIOGEOCOENOLOGY	
EARTHWORM	NC	ECOTYPE	NC
USE EARTHWORM		USE ECOTYPE	
BT ANIMAL		BT ECOLOGICAL FORMATION	
ECOLOGICAL ANATOMY	BC	EDAPHIC	RC
USE 581 522 5 (Autecology)		AT EDAPHIC CLIMAX	
BT AUTECOLOGY		AT SOIL	
ECOLOGICAL CONSERVATION	BC	EDAPHIC CLIMAX	BC
USE 6:577 4.004 4 (Applied ecology)		USE 581 524 3:581 555 22 (Environment)	
BT APPLIED ECOLOGY		BT CLIMAX COMMUNITY	
NT BIOLOGICAL CONTROL		EFFECT	RC
NT SCRUB CONTROL		AT EFFECT ON STOCK	
NT VEGETATION		EFFECT ON STOCK	NC
NT WASTE		USE EFFECT ON STOCK	
NT NATURE CONSERVATION		BT POISON	
NT POLLUTION			
NT CHEMICAL CONTROL			
NT HERBICIDE			
ECOLOGICAL FORMATION	BC	ELECTRIC	RC
USE 581 526 (Physiognomy)		AT ELECTRICAL SOIL PROPERTY	
BT PLANT ECOLOGY		ELECTRICAL SOIL PROPERTY	BC
NT ECOTYPE		USE 581 52:631 437 (Environment)	
NT PHYSIOGNOMY		BT PHYSICAL SOIL PROPERTY	
ECOLOGICAL PROFILES	NC	ELEPHANT	NC
USE ECOLOGICAL PROFILES		USE ELEPHANT	
BT GRAPHIC REPRESENTATION		BT MAMMAL	
ECOLOGY	RC	ELM MODEL	NC
AT AQUATIC ECOLOGY		USE ELM	
AT PLANT ECOLOGY		BT MODEL	
AT APPLIED ECOLOGY			
ECOPHYSIOLOGY	BC	ENCHROACHMENT	BC
USE 581 522:581 1 (Autecology)		USE ENCHROACHMENT	
BT AUTECOLOGY		BT PLANT INVASION AND ENCHROACHMENT	
NT CALCIUM		ENCYCLOPAEDIA	NC
NT CARBOHYDRATE		USE ENCYCLOPAEDIA	
NT CHLOROPHYLL		BT ALPHABETIC REFERENCE WORK	
NT CYSTINE		ENDANGERED	RC
NT GLUCOSIDE		AT ENDANGERED VEGETATION	
NT MICRO-ELEMENT		ENDANGERED SPECIES	RC
NT NITRATE		AT ENDANGERED VEGETATION	
NT NITROGEN		ENDANGERED VEGETATION	NC
NT PHOSPHORUS		USE ENDANGERED VEGETATION	
NT PROTEIN		BT VEGETATION	
NT SULPHUR		RT ENDANGERED SPECIES	
NT LEAF FALL			
NT FIRE RESISTANCE			
NT CARBON DIOXIDE			
NT MACRO-ELEMENT			
NT LIGNIN			
ECOSYSTEM	BC	ENERGY	RC
USE 577 4: (Autecology)		AT BIOENERGETICS	
NT BIOENERGETICS		ENTROPY	NC
NT BIOMASS		USE ENTROPY	
NT BIOME		BT BIOENERGETICS	
NT NUTRIENT CYCLING			

ENVIRONMENT	BC	EVAPORATION	BC
USE 581 52:(Environment)		USE 581 52:551 573 (Environment)	
AT ENVIRONMENTAL GRADIENT		BT AQUEOUS VAPOUR	
AT ENVIRONMENTAL INFLUENCE		NT EVAPOTRANSPIRATION	
BT PLANT ECOLOGY		NT DIURNAL	
NT BIOTIC FACTOR		NT NOCTURNAL	
NT GEOLOGY			
NT GEOMORPHOLOGY		EVAPOTRANSPIRATION	NC
NT METEOROLOGY		USE EVAPOTRANSPIRATION	
NT MICRO-ENVIRONMENT		BT EVAPORATION	
NT MINERALOGY		BT TRANSPIRATION	
NT PETROLOGY			
NT STRATIGRAPHY		EVERGREEN	NC
NT SOIL		USE EVERGREEN	
RT HABITAT		BT PLANT FORM	
ENVIRONMENTAL INFLUENCE	BC	EVOLUTION	RC
USE 581 52:551 588 (Environment)		AT EVOLUTIONARY ECOLOGY	
BT CLIMATOLOGY			
ENVIRONMENTAL GRADIENT	NC	EVOLUTIONARY ECOLOGY	BC
USE ENVIRONMENTAL GRADIENT		USE 581 5: (Palaeoecology)	
BT HORIZONTAL ZONATION		BT PLANT ECOLOGY	
		NT HEREDITY	
ENVIRONMENTAL MANAGEMENT	BC	NT PHYLOGENY	
USE 6:577 4:712 (Applied ecology)		NT POPULATION ECOLOGY	
BT APPLIED ECOLOGY		NT SPECIATION	
NT LANDSCAPE PATTERN		NT VARIATION	
NT LANDSCAPE PLANNING			
NT VERGE		EXCHANGE	RC
		AT ION EXCHANGE	
EPIPHYTE	NC	EXHAUSTION	RC
USE EPIPHYTE		AT SOIL EXHAUSTION	
BT PLANT FORM			
ERADICATION	NT	EXPOSURE	RC
USE ERADICATION		AT EXPOSURE SCALE	
BT PLANT INVASION AND			
ENCHROACHMENT		EXPOSURE SCALE	NC
		USE EXPOSURE SCALE	
EROSION	RC	BT STATISTICAL PARAMETER	
AT SOIL EROSION			
ESTIMATION	RC	EXTERNAL	RC
AT WATER BALANCE ESTIMATION		AT EXTERNAL GEODYNAMICS	
AT SPECIES-AREA ESTIMATION			
ESTUARY	BC	EXTERNAL GEODYNAMICS	BC
USE 577 472:551 482 6 (Vegetation descr.)		USE 581 52:551 3 (Environment)	
BT AQUATIC VEGETATION		BT GEOLOGY	
NT EUTROPHICATION		NT EARTH FLOW	
NT POLLUTION			
EUTROPHICATION	NC	EXUDATE	RC
USE EUTROPHICATION		AT PLANT EXUDATE	
BT ESTUARY			
BT LAKE		FABRIC	RC
BT RIVER		AT TEXTURE	
BT WETLAND			
EVAPORIMETER	NC	FACTOR	RC
USE EVAPORIMETER		AT PHYSICAL FACTOR	
BT PRACTICAL METEOROLOGY		AT CHEMICAL FACTOR	
		AT BIOLOGICAL FACTOR	
		AT BIOTIC FACTOR	
		AT FACTOR ANALYSIS	

FACTOR ANALYSIS USE FACTOR BT MULTIVARIATE ANALYSIS	NC	FLOWER USE 581 522:581 46 (Autecology) BT PLANT ORGAN	BC
FALLOW USE FALLOW BT LAND RECLAMATION	NC	FOG USE FOG BT FOG MIST	NC
FERN USE FERN BT PLANT FORM	NC	FOG MIST USE 581 52:551 575 (Environment) BT AQUEOUS VAPOUR NT FOG NT MIST	BC
FERTILITY AT SOIL FERTILITY	RC		
FERTILIZER USE FERTILIZER BT PASTURE MANAGEMENT BT FORESTRY	NT	FOLIAGE AT LEAF	RC
		FORAGE AT FORAGE GRASS AT FORAGE PLANT	RC
FIRE USE 581 524 342 (Synecology) BT PLANT SUCCESSION NT BURN NT LIGHTNING	BC	FORAGE GRASS USE 6:577 4:633 2 (Applied ecology) BT AGRICULTURE NT PASTURE MANAGEMENT NT SWARD NT PASTURE YIELD NT DEFOLIATION RT PASTURE	BC
FIRE RESISTANCE USE FIRE RESISTANCE BT ECOPHYSIOLOGY	NC		
FISH USE FISH BT ANIMAL	NC	FORAGE PLANT USE 6:577 4:633 3 (Applied ecology) BT AGRICULTURE NT CACTUS RT PASTURE SCIENCE	BC
FIXATION AT NITROGEN FIXATION	RC		
FLAG AT FLAG TATTERING	RC	FOREST USE FOREST AT FORESTRY BT ECOSYSTEM BT FORMATION CLASS NT TROPICAL FOREST AT FOREST BIOME	NC
FLAG TATTERING USE FLAG TATTERING BT PRACTICAL METEOROLOGY	NC		
FLAT AT COASTAL FLAT	RC	FOREST PRODUCTION USE PRODUCTION BT FORESTRY	NC
FLOOD USE 581 52.551 577 37 (Environment) BT PRECIPITATION VARIATION	BC	FOREST RESOURCE USE RESOURCE BT FORESTRY	NC
FLOODPLAIN USE FLOODPLAIN BT HYDROGRAPHY	NC	FORESTRY USE 6:577 4:634 (Applied ecology) BT AGRICULTURE NT SILVICULTURE AT FOREST NT FOREST RESOURCE NT FOREST PRODUCTION NT AFFORESTATION NT DEFORESTATION NT TIMBER NT FERTILIZER	BC
FLORA USE FLORA NT PHYTOGEOGRAPHY	NC		
FLOW USE FLOW AT EARTH FLOW BT HYDROGRAPHY	NC		

FORM	RC	BT LANDSCAPE PATTERN	
AT PRECIPITATION FORM			
AT PLANT FORM		GENESIS	RC
RT STRUCTURE		AT PEDOGENESIS	
RT ARCHITECTURE			
RT TOPOGRAPHY		GENETIC	NC
		USE GENETIC	
FORMATION	RC	BT HEREDITY	
AT FORMATION CLASS			
AT PEDOGENESIS		GEOBOTANY	RC
		AT PHYTOGEOGRAPHY	
FORMATION CLASS	NC		
USE FORMATION CLASS		GEODYNAMIC	RC
BT PHYSIOGNOMY		AT EXTERNAL GEODYNAMICS	
NT DESERT		AT INTERNAL GEODYNAMICS	
NT DWARF SHRUBLAND			
NT FOREST		GEOLOGICAL MAPPING	RC
NT GRASSLAND		AT STRATIGRAPHIC MAPPING	
NT SAVANNA			
NT WOODLAND		GEOLOGICAL TIMESCALE	RC
NT HERBLAND		AT STRATIGRAPHY	
FORMULA	BC	GEOLOGY	BC
USE 574:51(083 (Synecology)		USE 581 52:551 1	
BT BIOMATHEMATICS		USE 581 52:551 2 (Environment)	
		USE 581 52:551 3	
FREQUENCY	NC	BT ENVIRONMENT	
USE FREQUENCY		NT EARTH STRUCTURE	
BT STATISTICAL PARAMETER		NT EXTERNAL GEODYNAMICS	
		NT INTERNAL GEODYNAMICS	
FROST	BC		
USE 581 52:551 574 42 (Environment)		GEOMORPHOLOGY	BC
BT CONDENSATION		USE 581 52:551 4 (Environment)	
		BT ENVIRONMENT	
FRUIT	BC	NT HYDROGRAPHY	
USE 581 522:581 47 (Autecology)		NT HYDROLOGY	
BT PLANT ORGAN		NT OCEANOGRAPHY	
		NT LAND FORM	
FUNGUS	RC	RT PHYSIOGRAPHY	
AT MYCOPHTA			
		GEOPHYTE	
FYNBOS	RC	USE GEOPHYTE	
AT FYNBOS BIOME		BT PLANT FORM	
		GEOXYLIC SUFFRUTEX	NT
		USE GEOXYLIC SUFFRUTEX	
GALL	NC	BT PLANT FORM	
USE GALL			
BT OTHER ORGAN		GERMINATION	NC
		USE GERMINATION	
GAME	NC	BT PHENOLOGY	
USE GAME			
BT MAMMAL		GILGAI	NC
AT GAME MANAGEMENT		USE GILGAI	
		BT SOIL STRUCTURE	
GAME MANAGEMENT	BC		
USE 6:577 4:639 1 (Applied ecology)		GIRDLING	NC
BT AGRICULTURE		USE GIRDLING	
		BT SAMPLING	
GAME RESERVE	NC		
USE GAME RESERVE		GLOBE	RC
BT NATURE RESERVE		AT EARTH	
		AT WORLD	
GARDEN	NC		
USE GARDEN			

GLOSSARY	NC	GRASSVELD	RC
USE GLOSSARY		AT GRASS	
NT DICTIONARY GLOSSARY			
GLUCOSIDE	NC	GRAZE	NC
USE GLUCOSIDE		USE GRAZE	
BT ECOPHYSIOLOGY		BT ANIMAL	
		NT NON-SELECTIVE GRAZING	
GRADIENT	RC	GROWTH	
AT GRADIENT ANALYSIS		AT ROOT GROWTH	
AT SLOPE		AT GROWTH FORM	
AT ENVIRONMENTAL GRADIENT			
AT VEGETATION GRADIENT		GROWTH FORM	NC
GRADIENT ANALYSIS	NC	USE GROWTH FORM	
USE GRADIENT ANALYSIS		BT PLANT FORM	
BT MULTIVARIATE ANALYSIS		NT HERB	
		NT SHRUB	
GRANITE	NC	NT TREE	
USE GRANITE		NT GRASS	
BT IGNEOUS ROCK		NT CLIMBER	
GRAPHIC	RC	GROWTH RING	NC
AT GRAPHIC REPRESENTATION THEORY		USE GROWTH RING	
		BT TREE GROWTH	
GRAPHIC AND CARTOGRAPHIC REPRESENTATION	BC	GUTTATION	NC
USE 912 4(Reference works and maps)		USE GUTTATION	
BT NON-LITERARY REPRESENTATION		BT PLANT-WATER RELATION	
NT MAP. PLAN. CHART			
GRAPHIC REPRESENTATION THEORY	BC	GYMNOSPERMAE	RC
USE 581 524:167 3(084 (Synecology)		USE 1st GENUS NO. IN DYER	
BT SYNTHESIS		& 88888 PUT IN TAXON FIELD	
NT ECOLOGICAL PROFILES			
NT PROFILE DIAGRAM		GYPSUM	NC
		USE GYPSUM	
GRAPHITE	NC	BT INORGANIC SOIL COMPONENT	
USE GRAPHITE			
BT MINERALOGY		HABITAT	RC
GRASS	NC	AT HABITAT CORRELATION	
USE GRASS		AT ENVIRONMENT	
BT HERB			
AT FORAGE GRASS		HABITAT CORRELATION	BC
NT SOUR GRASS		USE 581 524:167 3:577 4(Synecology)	
NT SWEET GRASS		BT SYNTHESIS	
AT GRASSLAND			
BT GROWTH FORM		HALOPHYTE	NC
RT GRASSVELD		USE HALOPHYTE	
		BT PLANT FORM	
GRASSLAND	NC	HARDPAN	NC
USE GRASSLAND		USE HARDPAN	
AT GRASSLAND BIOME		BT SOIL TYPE	
BT FORMATION CLASS		NT LATERITE	
NT GRASSLAND MODEL			
RT HERBLAND		HEAVY METAL	NC
RT PRAIRIE		USE HEAVY METAL	
		BT INORGANIC SOIL COMPONENT	
GRASSLAND MODEL	NC	HELOPHYTE	NC
USE 574:51:167 7(Synecology)		USE HELOPHYTE	
USE GRASSLAND		BT RAUNKIAER FORM	
BT GRASSLAND			
BT MODEL			

HERB	NC	BT GEOMORPHOLOGY	
USE HERB		AT SOIL MOISTURE	
BT GROWTH FORM		AT SOIL WATER	
NT GRASS		NT PRESSURE WATER	
NT FORB		NT WATER SUPPLY	
AT HERBLAND		RT WATER	
HERBICIDE	NC	HYDRONIUM	NC
USE HERBICIDE		USE HYDRONIUM	
BT ECOLOGICAL CONSERVATION		BT REACTION	
RT WEEDKILLER			
HERBLAND	NC	HYDROMETER	NC
USE HERBLAND		USE HYDROMETER	
AT GRASSLAND		BT SOIL ANALYSIS	
BT FORMATION CLASS			
HEREDITY	BC	HYGROMETER	NC
USE 581 5:575 1 (Palaeoecology)		USE HYGROMETER	
BT EVOLUTIONARY ECOLOGY		BT PRACTICAL METEOROLOGY	
NT GENETIC			
HILLSLOPE	NT	HYPSONETER	NC
USE HILLSLOPE		USE HYPSONETER	
BT LAND FORM		BT APPARATUS	
HORIZON	RC	IGNEOUS	RC
AT HORIZONTAL ZONATION		AT IGNEOUS ROCK	
AT LITTER. ORGANIC HORIZON			
AT A-C HORIZON		IGNEOUS ROCK	BC
		USE 581 52:552 3 (Environment)	
		BT PETROLOGY	
HORIZONTAL ZONATION	BC	NT BASALT	
USE 581 524 42 (Synecology)		NT DOLERITE	
BT ZONATION		NT GRANITE	
NT ENVIRONMENTAL GRADIENT			
HORTICULTURE	BC	IMAGERY	RC
USE 6:577 4:635(Applied ecology)		AT SATELLITE IMAGERY	
BT AGRICULTURE			
NT WEED		IMPACT ASSESSMENT	NC
		USE IMPACT ASSESSMENT	
		BT LANDSCAPE PLANNING	
HUMAN	NC	INDEX	RC
USE HUMAN		AT CANOPY INDEX	
BT MAMMAL		AT AIR POLLUTION INDEX	
RT MAN		AT DISPERSION INDEX	
HUMIDITY	BC	INDICATOR	RC
USE 581 52:551 571 (Environment)		AT PLANT/VEGETATION INDICATOR	
BT AQUEOUS VAPOUR		AT CLIMATIC VARIATION INDICATOR	
HUMUS	RC	INFLUENCE	RC
AT MOR		AT ENVIRONMENTAL INFLUENCE	
AT MULL		AT LATITUDINAL INFLUENCE	
HYDROGRAPHY	BC	INORGANIC	RC
USE 581 52:551 48 (Environment)		AT INORGANIC SOIL COMPONENT	
BT GEOMORPHOLOGY			
NT RUNOFF		INORGANIC SOIL COMPONENT	BC
NT FLOW		USE 581 52:631 416 (Environment)	
NT CATCHMENT		BT CHEMICAL SOIL PROPERTY	
NT FLOODPLAIN		NT GYPSUM	
RT SURFACE WATER		NT HEAVY METAL	
HYDROLOGY	BC	NT PHOSPHATE	
USE 581 52:551 49 (Environment)		NT PHOSPHORUS	

NT ZINC		KAROO	RC
NT ARSENIC		AT KAROO BIOME	
NT CHLORIDE			
NT NITRATE			
NT COPPER			
NT NICKEL		LAGOON	NC
NT POTASSIUM		USE LAGOON	
NT CHROMIUM		BT MARINE	
NT ALUMINIUM			
NT AMMONIA		LAKE	BC
NT NITROGEN		USE 577 472:551 481 1 (Veg. descr.)	
		BT AQUATIC VEGETATION	
INSECT	NC	NT EUTROPHICATION	
USE INSECT		NT POLLUTION	
BT ANIMAL			
NT ANT		LAND	RC
NT LOCUST		AT LAND RECLAMATION	
NT TERMITE		AT LAND CLASSIFICATION AND USE	
NT WASP			
INTERCEPTION	NC	LAND BRIDGE THEORY	NC
USE INTERCEPTION		USE LAND BRIDGE THEORY	
AT LINE-INTERCEPT		BT PHYLOGENY	
BT RAIN. DRIZZLE			
		LAND CLASSIFICATION	NC
INTERNAL	RC	USE LAND CLASSIFICATION	
AT INTERNAL GEODYNAMICS		BT LAND CLASSIFICATION AND USE	
		NT LAND TYPE	
INTERNAL GEODYNAMICS	BC	LAND CLASSIFICATION AND USE	BC
USE 581 52:551 2 (Environment)		USE 581 52:631 474 (Environment)	
BT GEOLOGY		BT SOIL SURVEY. LAND CLASSIFICATION	
		AND USE	
INTERTIDAL	NC	NT LAND CLASSIFICATION	
USE INTERTIDAL		NT DISTURBANCE	
BT OCEANOGRAPHY		NT LAND USE	
INVASION	NC	LAND FORM	BC
USE INVASION		USE 581 52:551 41 (Environment)	
BT PLANT INVASION AND		BT GEOMORPHOLOGY	
ENCHROACHMENT		NT COASTAL FLAT	
		NT DESERT	
INVERTEBRATA	RC	NT DUNE	
AT ANIMAL		NT ISLAND	
		NT MOUNTAIN	
ION	RC	NT RELIEF	
AT ION EXCHANGE		NT SHORE	
		NT SPELEOLOGY	
ION EXCHANGE	BC	NT PLAIN	
USE 581 52:631 413 (Environment)		NT VALLEY	
BT CHEMICAL SOIL PROPERTY		NT CAVE	
NT CATION EXCHANGE		NT HILLSLOPE	
NT RH		NT DONGA	
NT SALT CONTENT		NT SEMI-DESERT	
		NT PLATEAU	
IRRIGATION	BC		
USE 6:577 4:631 67 (Applied ecology)		LAND RECLAMATION	BC
BT AGRICULTURE		USE 6:577 4:631 61 (Applied ecology)	
		BT AGRICULTURE	
ISLAND	NC	NT STRIP MINE	
USE ISLAND		NT SPOIL	
BT LAND FORM		NT FALLOW	
		NT RE-VEGETATION	

LANDSAT	NC	LICHEN	BC
USE LANDSAT		USE 582 29 (Autecology)	
BT SATELLITE IMAGERY		BT PLANT/VEGETATION INDICATOR	
		BT SYSTEMATIC BOTANY	
LANDSCAPE PATTERN	BC	LIGHT	NC
USE 6:577 4:712 2 (Applied ecology)		USE LIGHT	
BT ENVIRONMENTAL MANAGEMENT		BT RADIATION	
NT GARDEN			
NT PARK		LIGHTNING	NC
NT NATURE RESERVE		USE LIGHTNING	
		BT FIRE	
LANDSCAPE PLANNING	BC	LIGNIN	NC
USE 6:577 4:712 3 (Applied ecology)		USE LIGNIN	
BT ENVIRONMENTAL MANAGEMENT		BT ECOPHYSIOLOGY	
NT SOUND ABSORPTION			
NT IMPACT ASSESSMENT			
LAND TYPE	NC	LIMESTONE	NC
USE LAND TYPE		USE LIMESTONE	
BT LAND CLASSIFICATION		BT SEDIMENTARY ROCK	
LAND USE	NC	LIMNOPHYTE	NC
USE LAND USE		USE LIMNOPHYTE	
BT LAND CLASSIFICATION AND USE		BT PLANT FORM	
LATERITE	NC	LINE	RC
USE LATERITE		AT LINE-INTERCEPT	
BT HARDPAN		AT LINE TRANSECT	
LATITUDE	RC	LINE-INTERCEPT	NC
AT LATITUDINAL INFLUENCE		USE LINE-INTERCEPT	
		BT PLOTLESS	
LATITUDINAL INFLUENCE	BC	LINE TRANSECT	NC
USE 581 52:551 581 (Environment)		USE LINE TRANSECT	
BT CLIMATOLOGY		BT PLOTLESS	
LAYER	RC	LIQUID	NC
AT SOIL LAYER		USE LIQUID	
AT AIR LAYER		BT SOIL MOISTURE	
LEACH	NC	LITTER	RC
USE LEACH		AT LITTER. ORGANIC HORIZON	
BT CHEMICAL FACTOR			
LEAF	BC	LITTER. ORGANIC HORIZON	BC
USE 581 522:581 45 (Autecology)		USE 581 52:631 472 5 (Environment)	
BT PLANT ORGAN		BT SOIL PROFILE	
NT STOMATA		NT MOR	
NT VENATION		NT MULL	
RT FOLIAGE			
LEAF AREA DETERMINATION	NC	LOCUST	NC
USE LEAF AREA DETERMINATION		USE LOCUST	
BT SAMPLING		BT INSECT	
LEAF FALL	NC	LOWER ORGANISM	BC
USE LEAF FALL		USE 581 52:581 071 (Environment)	
BT ECOPHYSIOLOGY		BT BIOTIC FACTOR	
		NT BACTERIUM	
LEMNETUM	NC	NT MYCOPHYTA	
USE LEMNETUM		RT MICRO-ORGANISM	
BT SYNTAXONOMIC ASSOCIATION			

MACRO-ELEMENT	NC	MATRIX	NC
USE MACRO-ELEMENT		USE MATRIX	
BT ECOPHYSIOLOGY		BT MULTIVARIATE ANALYSIS	
MACROPHYTE	NC	MECHANICS	NC
USE MACROPHYTE		USE MECHANICS	
BT PLANT FORM		AT MECHANICAL SOIL PROPERTY	
		BT ATMOSPHERIC STRUCTURE	
MAMMAL	NC	MECHANICS THERMODYNAMICS	
USE MAMMAL			
BT ANIMAL		MECHANICAL SOIL PROPERTY	BC
NT ANTELOPE		USE 581 52:631 431 (Environment)	
NT GAME		BT PHYSICAL SOIL PROPERTY	
NT AARDVARK		NT DENSITY	
NT HUMAN		NT COMPACTION	
NT ELEPHANT			
NT RODENT			
MAN	RC	MEDICINAL	NC
AT HUMAN		USE MEDICINAL	
		BT PLANT FORM	
MANAGEMENT	RC	MESOZOIC	NC
AT GAME MANAGEMENT		USE 581 52:551 76 (Palaeoecology)	
AT SHORE MANAGEMENT		BT STRATIGRAPHY	
AT PASTURE MANAGEMENT		NT TRIASSIC	
		NT JURASSIC	
MANGANESE	NC	NT CRETACEOUS	
USE MANGANESE			
BT NUTRIENT CYCLING		METAMORPHIC ROCK	BC
		USE 581 52:552 4 (Environment)	
MANGROVE	NT	BT PETROLOGY	
USE MANGROVE			
BT PLANT FORM		METEOROLOGY	BC
		USE 581 52:551 5 (Environment)	
MAP	NC	BT ENVIRONMENT	
USE MAP		NT AQUEOUS VAPOUR	
AT SOIL MAPPING		NT ATMOSPHERIC PRESSURE	
AT SPECIES DISTRIBUTION MAPPING		NT CLIMATOLOGY	
AT STRATIGRAPHIC MAPPING		NT PRACTICAL METEOROLOGY	
AT VEGETATION MAPPING		NT RADIATION TEMPERATURE	
BT CHART. MAP. PLAN		NT STRUCTURE MECHANICS THERMO-	
		DYNAMICS	
MARINE	BC	NT WIND	
USE 577 472:551 46 (Vegetation descr.)		RT WEATHER	
AT OCEANOGRAPHY			
BT AQUATIC VEGETATION		METHOD	RC
NT POLLUTION		AT PLANT ECOLOGICAL THEORY AND	
NT LAGOON		METHODS	
RT SEA			
		MICROCLIMATOLOGY	BC
MARINE SHORE	NC	USE 581 52:551 584 (Environment)	
USE MARINE		BT CLIMATOLOGY	
BT SHORE			
MARSH	RC	MICRO-ELEMENT	NC
AT WETLAND		USE MICRO-ELEMENT	
		BT ECOPHYSIOLOGY	
MASS	RC	MICRO-ENVIRONMENT	NC
AT BIOMASS		USE MICRO	
		BT ENVIRONMENT	
MATHEMATICS	RC	RT SOIL MICRO-ENVIRONMENT	
AT BIOMATHEMATICS			

MICROFLORA USE MICROFLORA BT ORGANIC SOIL COMPONENT	NC	MOR USE 581 52:631 472 55 (Environment) BT LITTER. ORGANIC HORIZON RT RAW HUMUS	BC
MICRO-ORGANISM AT LOWER ORGANISM	RC	MORPHOLOGY AT PLANT MORPHOLOGY	RC
MICROWAVE USE MICROWAVE BT RADIATION	NC	MORTALITY AT PLANT MORTALITY	RC
MILD HUMUS AT MULL	RC	MOSS USE MOSS BT PLANT/VEGETATION INDICATOR	NC
MINE AT STRIPMINE	RC	MOUNTAIN USE MOUNTAIN AT MOUNTAIN WIND BT LAND FORM RT MONTANE RT OROLOGY	NC
MINE DUMP AT SPOIL	RC		
MINERAL AT CLAY MINERAL AT MINERALOGY	RC		
MINERALOGY USE 581 52:553 BT ENVIRONMENT NT ALUMINIUM NT DOLOMITE NT GRAPHITE NT NICKEL	BC	MOUNTAIN WIND USE MOUNTAIN BT WIND	NC
MINIMUM AREA USE MINIMUM AREA BT AIR PHOTO	NC	MOVEMENT AT SLEEP MOVEMENT	RC
MIST USE MIST BT FOG MIST	NC	MOWING USE MOWING BT PASTURE MANAGEMENT	NC
MODEL USE 574:51:167 7 (Synecology) BT BIOMATHEMATICS NT SIMULATION NT DECOMPOSITION MODEL NT GRASSLAND MODEL NT ELM MODEL NT POPULATION MODEL NT ASSOCIATION MODEL NT PRECIPITATION MODEL	BC	MULL USE 581 52:631 472 56 (Environment) BT LITTER. ORGANIC HORIZON RT MILD HUMUS	BC
MOISTURE AT SOIL MOISTURE	RC	MULTIDISCIPLINE USE MULTIDISCIPLINE BT ECOSYSTEM	NC
MOLYBDENUM USE MOLYBDENUM BT NUTRIENT CYCLING	NC	MULTIVARIATE ANALYSIS USE MULTIVARIATE ANALYSIS BT QUANTITATIVE OBSERVATION NT ASSOCIATION ANALYSIS NT FACTOR ANALYSIS NT GRADIENT ANALYSIS NT MATRIX NT PLEXUS NT RECIPROCAL AVERAGING NT PATTERN ANALYSIS	NC
MONOCOTYLEDONAE USE 1st GENUS NO. IN DYER & 88888 PUT IN TAXON FIELD	RC	MUSHROOM USE MUSHROOM BT MYCOPHYTA	NC
MONTANE AT MOUNTAIN	RC	MUTATION USE MUTATION BT VARIATION	NC
		MUTUALISM USE MUTUALISM BT SYMBIOSIS	

MYCOFLORA USE MYCOFLORA BT ORGANIC SOIL COMPONENT	NC	NON-CLUSTERING USE NON-CLUSTERING BT PROGRAM	NC
MYCOPHYTA USE 582 28 (Autecology) BT SYSTEMATIC BOTANY RT FUNGUS NT MYCORRHIZA NT LOWER ORGANISM NT MUSHROOM	BC	NON-LITERARY REPRESENTATION USE 912 (Reference works and maps) NT GRAPHIC AND CARTOGRAPHIC REPRESENTATION	BC
MYCORRHIZA USE MYCORRHIZA BT MYCOPHYTA	NC	NON-SELECTIVE GRAZING USE NON-SELECTIVE BT GRAZE	NC
		NUTRIENT AT NUTRIENT CYCLING	RC
		NUTRIENT CYCLING USE 577 4:577 12 (Autecology) BT ECOSYSTEM NT NITRATE NT NITROGEN NT BORON NT MANGANESE NT COPPER NT ZINC NT MOLYBDENUM NT PHOSPHORUS NT NICKEL	BC
NATURE CONSERVATION USE NATURE CONSERVATION BT ECOLOGICAL CONSERVATION	NC		
NATURE RESERVE USE NATURE RESERVE BT LANDSCAPE PATTERN NT GAME RESERVE	NC		
NEST AT NESTED QUADRAT	RC		
NESTED QUADRAT USE NESTED QUADRAT BT QUADRAT	NC	OBSERVATION AT QUALITATIVE OBSERVATION AT QUANTITATIVE OBSERVATION	RC
NEUTRON PROBE USE NEUTRON PROBE BT APPARATUS	NC	OCEANOGRAPHY USE 581 52.551 46 (Environment) BT GEOMORPHOLOGY AT MARINE NT INTERTIDAL NT REEF RT SEA	BC
NICKEL USE NICKEL BT MINERALOGY BT PLANT/VEGETATION INDICATOR BT INORGANIC SOIL COMPONENT BT NUTRIENT CYCLING	NC	OIL USE OIL BT PLANT EXUDATE	NC
NITRATE USE NITRATE BT NUTRIENT CYCLING BT ECOPHYSIOLOGY BT INORGANIC SOIL COMPONENT	NC	OLD LAND USE OLD LAND BT PLANT SUCCESSION	NC
NITROGEN USE NITROGEN BT NUTRIENT CYCLING BT INORGANIC SOIL COMPONENT BT ECOPHYSIOLOGY	NC	ORDINATION AT POLAR ORDINATION	RC
		ORGAN AT PLANT ORGAN	RC
NITROGEN FIXATION USE NITROGEN FIXATION BT ROOT	NC	ORGANIC AT ORGANIC SOIL COMPONENT AT LITTER. ORGANIC HORIZON	RC
NOCTURNAL USE NOCTURNAL BT EVAPORATION	NT	ORGANIC SOIL COMPONENT USE 581 52:631 417 (Environment) BT CHEMICAL SOIL PROPERTY	BC

NT MYCOFLORA		NT RESEEDING	
NT MICROFLORA		NT FERTILIZER	
		NT MOWING	
ORGANISM	RC		
AT LOWER ORGANISM		PASTURE SCIENCE	RC
		AT FORAGE GRASS	
OROLOGY	RC	AT FORAGE PLANT	
AT MOUNTAIN			
		PASTURE YIELD	NC
OTHER ORGAN	BC	USE PASTURE YIELD	
USE 581 522:581 49 (Autecology)		BT FORAGE GRASS	
BT PLANT ORGAN			
NT GALL		PATTERN	NC
NT TENDRIL		USE PATTERN	
NT THORN		AT LANDSCAPE PATTERN	
		BT STATISTICAL PARAMETER	
OXIDATION REDUCTION POTENTIAL	RC	AT PATTERN ANALYSIS	
AT RH			
		PATTERN ANALYSIS	NC
		USE PATTERN ANALYSIS	
		BT MULTIVARIATE ANALYSIS	
PALAEOBOTANY	BC		
USE 581:56 (Palaeoecology)		PEDOGENESIS	BC
		USE 581 52:631 48 (Environment)	
PALAEOCLIMATOLOGY	BC	BT SOIL	
USE 581 52:551 583 7 (Environment)		NT BIOLOGICAL FACTOR	
BT CLIMATIC VARIATION		NT CHEMICAL FACTOR	
		NT PHYSICAL FACTOR	
PALAEOZOIC	NC	RT SOIL DEVELOPMENT	
USE 581 52.551 73 (Palaeoecology)		RT FORMATION	
NT CAMBRIAN		RT SOIL FORMATION	
NT SILURIAN			
NT DEVONIAN		PERIODICITY	NC
NT CARBONIFEROUS		USE PERIODICITY	
NT PERMIAN		BT PHENOLOGY	
BT STRATIGRAPHY		BT RAIN	
PARAMETER	RC	PERIPHYTON	NC
AT STATISTICAL PARAMETER		USE PERIPHYTON	
		BT PLANT FORM	
PARASITISM	NC		
USE PARASITISM		PERMANENT	RC
BT SYMBIOSIS		AT PERMANENT PLOT	
		AT PERMANENT QUADRAT	
PARK	NC		
USE PARK		PERMANENT PLOT	RC
BT LANDSCAPE PATTERN		AT TIME SAMPLING	
PARTHENOGENESIS	NC	PERMANENT QUADRAT	RC
USE PARTHENOGENESIS		AT TIME SAMPLING	
BT REPRODUCTION			
		PERMIAN	BC
PARTICLE	NC	USE 581 52:551 736 (Palaeoecology)	
USE PARTICLE		BT PALAEOZOIC	
BT SOIL TEXTURE			
AT AIRBORNE PARTICLE		PETROGENENSIS	BC
		USE 581 52.552 11 (Environment)	
PASTURE	RC	BT ROCK DETERMINATION	
AT FORAGE GRASS			
RT PASTURE SCIENCE		PETROLOGY	BC
		USE 581 52:552 (Environment)	
PASTURE MANAGEMENT	NC	BT ENVIRONMENT	
USE PASTURE MANAGEMENT		NT IGNEOUS ROCK	
BT FORAGE GRASS		NT METAMORPHIC ROCK	

NT ROCK DETERMINATION		NT THERMAL SOIL PROPERTY	
NT SEDIMENTARY ROCK			
pH	NC	PHYSIOGNOMY	BC
USE pH		USE 581 526 1 (Physiognomy)	
BT SOIL REACTION pH		BT ECOLOGICAL FORMATION	
		NT FORMATION CLASS	
PHENOLOGY	BC	PHYSIOGRAPHY	RC
USE 581 522:581 543 (Autecology)		AT GEOMORPHOLOGY	
BT AUTECOLOGY			
NT DORMANCY		PHYSIOLOGICAL ADAPTATION	RC
NT GERMINATION		AT PLANT ADJUSTMENT	
NT SLEEP MOVEMENT			
NT PERIODICITY		PHYTOCENOSE	NC
PHOSPHATE	NC	USE PHYTOCENOSE	
USE PHOSPHATE		BT CLASSIFICATION THEORY	
BT INORGANIC SOIL COMPONENT		BT PHYTOSOCIOLOGY	
		RT COMMUNITY	
PHOSPHORUS	NC	PHYTOGEOGRAPHY	NT
USE PHOSPHORUS		USE PHYTOGEOGRAPHY	
BT INORGANIC SOIL COMPONENT		BT PHYTOGRAPHY & PHYTOSOCIOLOGY	
BT ECOPHYSIOLOGY		NT CHECK-LIST	
BT NUTRIENT CYCLING		NT FLORA	
		RT GEOBOTANY	
PHOTOGRAPHY	NC	PHYTOGEOGRAPHY & PHYTOSOCIOLOGY	BC
USE PHOTOGRAPHY		USE 581 9 (Vegetation descr.)	
BT REMOTE SENSING		NT PHYTOGEOGRAPHY	
NT AIR PHOTO		NT PHYTOSOCIOLOGY	
PHOTOSYNTHESIS	NC	PHYTOSOCIOLOGY	NC
USE PHOTOSYNTHESIS		USE PHYTOSOCIOLOGY	
BT PRIMARY PRODUCTIVITY		BT PHYTOGEOGRAPHY AND	
		PHYTOSOCIOLOGY	
PHYLOGENY	BC	NT PHYTOCENOSE	
USE 581 5:576 12 (Palaeoecology)		NT REGIONAL ACCOUNT	
BT EVOLUTIONARY ECOLOGY		NT SYNTAXONOMIC ASSOCIATION	
NT CONVERGENCE		NT VEGETATION CLASSIFICATION	
NT LAND BRIDGE THEORY			
PHYSICAL	RC	PIONEER	NC
AT PHYSICAL SOIL PROPERTY		USE PIONEER	
AT PHYSICAL FACTOR		BT PLANT SUCCESSION	
PHYSICAL FACTOR (PLANT)	BC	PLACE NAME	RC
USE 581 522:577 46 (Autecology)		AT ANTARTICA = ((99	
BT AUTECOLOGY		AT AFRICA = ((6	
		AT ASIA = ((5	
PHYSICAL FACTOR (SOIL)	BC	AT AUSTRALIA = ((94	
USE 581 52:631 482 (Environment)		AT EUROPE = ((4	
BT PEDOGENESIS		AT INDONESIA = ((910	
NT SEDIMENTATION		AT NEW GUINEA = ((95	
		AT NEW ZEALAND = ((931	
PHYSICAL SOIL PROPERTY	BC	AT NORTH AMERICA = ((7	
USE 581 52:631 43 (Environment)		AT SOUTH AMERICA = ((8	
BT SOIL		AT WORLD = ((100	
NT SATURATED			
NT UNSATURATED		AFRICA	BC
NT ELECTRICAL SOIL PROPERTY		USE ((6	
NT MECHANICAL SOIL PROPERTY		NT AFRICAN ISLAND	
NT SOIL ATMOSPHERE		NT CENTRAL AFRICA	
NT SOIL STRUCTURE		NT NORTH AFRICA	
NT SOIL TEXTURE		NT SOUTHERN AFRICA	
NT SOIL WATER		NT WEST AFRICA	

AFRICAN ISLAND	BC	AUSTRALIA	BC
USE ((69		USE ((94	
BT AFRICA		NT NEW SOUTH WALES	
NT MADAGASCAR		NT QUEENSLAND	
NT MAURITIUS		NT TASMANIA	
NT SEYCHELLES		NT VICTORIA	
ALABAMA	BC	BARBADOS	BC
USE ((73(761		USE ((729 86	
BT SOUTH CENTRAL STATES		BT CARIBBEAN TERRITORIES	
ALASKA	BC	BASUTOLAND	RC
USE ((73(798		AT LESOTHO	
BT GREAT BASIN AND PACIFIC STATES		BECHUANALAND	RC
ALGERIA	BC	AT BOTSWANA	
USE ((61(65		BELGIAN CONGO	RC
BT NORTH AFRICA		AT CONGO	
ANGOLA	BC	AT ZAIRE	
USE ((673		BORNEO	BC
BT CENTRAL AFRICA		USE ((910(911	
NT CABINDA		BT INDONESIA	
ANTARCTICA	BC	BOTSWANA	BC
USE ((99		USE ((681	
ARABIA	BC	BT SOUTHERN AFRICA	
USE ((53		ST BECHUANALAND	
BT ASIA		BRAZIL	BC
NT SAUDI ARABIA		USE ((81	
ARGENTINA	BC	BT SOUTH AMERICA	
USE ((82		BRITISH ISLES	BC
BT SOUTH AMERICA		USE ((41	
ARIZONA	BC	USE ((42	
USE ((73(791		BT EUROPE	
BT GREAT BASIN AND PACIFIC STATES		NT EIRE	
ARKANSAS	BC	NT ENGLAND	
USE ((73(767		NT SCOTLAND	
BT SOUTH CENTRAL STATES		NT ULSTER	
ASIA	BC	NT WALES	
USE ((5		RT GREAT BRITAIN	
NT ARABIA		RT UNITED KINGDOM	
NT ASIA MINOR		BULGARIA	BC
NT INDIA		USE ((497 2	
NT IRAN		BT EUROPE	
NT JAPAN ADJACENT ISLANDS		BUNDESREPUBLIK DEUTSCHLAND	RC
ASIA MINOR	BC	AT WEST GERMANY	
USE ((56		CABINDA	NT
BT ASIA		USE CABINDA	
NT ISRAEL		BT ANGOLA	
NT TURKEY		ST PORTUGUESE CONGO	
ASIATIC USSR	BC	CALIFORNIA	BC
USE ((57		USE ((73(794	
BT USSR		BT PACIFIC STATES	
NT KAZAKHSTAN		CAMEROON	BC
NT CENTRAL ASIAN UNION REPUBLICS		USE ((671 1	
NT SIBERIA AND SOVIET FAR EAST		BT CENTRAL AFRICA	

CANADA	BC	DENMARK	BC
USE ((71		USE ((489	
BT NORTH AMERICA		BT SCANDINAVIA	
NT ONTARIO			
CAPE PROVINCE	BC	DON (LOWER)	BC
USE ((680(687		USE ((470 6	
BT SOUTH AFRICA		BT EUROPEAN USSR	
CARIBBEAN TERRITORIES	BC	EAST AFRICA	BC
USE ((729		USE ((676	
BT NORTH AMERICA		BT CENTRAL AFRICA	
NT BARBADOS		NT KENYA	
NT CUBA		NT TANZANIA	
NT PUERTO RICO		NT MOZAMBIQUE	
NT TRINIDAD TOBAGO		NT UGANDA	
CENTRAL AFRICA	BC	ECUADOR	BC
USE ((67		USE ((866	
BT AFRICA		BT SOUTH AMERICA	
NT CONGO		NT GALAPAGOS	
NT EAST AFRICA		EIRE	BC
NT ZAIRE		USE ((417	
NT CAMEROON		BT BRITISH ISLES	
NT ANGOLA		ST IRISH REPUBLIC	
CENTRAL AMERICA	BC	EGYPT	BC
USE ((728		USE ((61(620	
BT NORTH AMERICA		BT NORTH AFRICA	
NT COSTA RICA		RT SINAI	
CENTRAL ASIAN UNION REPUBLICS	BC	ENGLAND	BC
USE ((575		USE ((420	
BT ASIATIC USSR		BT BRITISH ISLES	
RT UZBEK		ETHIOPIA	BC
CHOBE	RC	USE ((61(63	
USE ((681		BT NORTH AFRICA	
BT BOTSWANA		EUROPE	BC
COLORADO	BC	USE ((4	
USE ((73(788		NT POLAND	
BT WESTERN STATES		NT BRITISH ISLES	
CONGO	BC	NT EUROPEAN USSR	
USE ((672 4		NT FRANCE	
BT CENTRAL AFRICA		NT GREECE	
RT BELGIAN CONGO		NT NETHERLANDS	
CORSICA	BC	NT ICELAND	
USE ((449 45		NT SCANDINAVIA	
BT FRANCE		NT CZECHOSLOVAKIA	
COSTA RICA	BC	NT GERMANY	
USE ((728 6		NT ITALY	
BT CENTRAL AMERICA		NT BULGARIA	
CUBA	BC	EUROPEAN USSR	BC
USE ((729 1		USE ((47	
BT CARIBBEAN TERRITORIES		BT USSR	
CZECHOSLOVAKIA	BC	BT EUROPE	
USE ((437		NT MIDDLE AND LOWER VOLGA REGION	
BT EUROPE		NT DON (LOWER)	
		NT UKRAINE	
		FINLAND	BC
		USE ((480	
		BT SCANDINAVIA	

FLORIDA	BC	INDONESIA	BC
USE ((73(759		USE ((910	
BT SOUTH EASTERN STATES		NT BORNEO	
FRANCE	BC	IRISH REPUBLIC	RC
USE ((44		AT EIRE	
BT EUROPE			
NT CORSICA		ISRAEL	BC
GALAPAGOS	BC	USE ((569 4	
USE ((866 28		BT ASIA MINOR	
BT ECUADOR		ITALY	BC
GERMANY	BC	USE ((45	
USE ((430		BT EUROPE	
BT EUROPE		IVORY COAST	BC
NT WEST GERMANY		USE ((666 8	
		BT WEST AFRICA	
GHANA	BC	JAPAN ADJACENT ISLANDS	BC
USE ((667		USE ((52	
BT WEST AFRICA		BT ASIA	
ST GOLD COAST			
GOLD COAST	RC	KAFUE FLATS	RC
AT GHANA		AT ZAMBIA	
GREAT BASIN AND PACIFIC STATES	BC	KANSAS	BC
USE ((73(79		USE ((73(781	
BT UNITED STATES OF AMERICA		BT WESTERN STATES	
NT CALIFORNIA		KAZAKHSTAN	BC
NT OREGON		USE ((574	
NT UTAH		BT ASIATIC USSR	
NT ARIZONA		KENTUCKY	BC
NT ALASKA		USE ((73(769	
NT IDAHO		BT SOUTH CENTRAL STATES	
GREAT BRITAIN	RC	KENYA	BC
AT BRITISH ISLES		USE ((676 2	
GREECE	BC	BT EAST AFRICA	
USE ((495		LESOTHO	BC
BT EUROPE		USE ((686 1	
GWAAI RIVER	RC	BT SOUTHERN AFRICA	
AT ZIMBABWE		ST BASUTOLAND	
RIVER BETWEEN BULAWAYO AND		LIBERIA	BC
VICTORIA FALLS		USE ((666	
ICELAND	BC	BT WEST AFRICA	
USE ((491 1		LIBYA	BC
BT EUROPE		USE ((612	
IDAHO	BC	BT NORTH AFRICA	
USE ((73(796		LUKANGA SWAMPS	RC
BT GREAT BASIN AND PACIFIC STATES		AT ZAMBIA	
ILLINOIS	BC	MADAGASCAR	BC
USE ((73(773		USE ((691	
BT NORTH CENTRAL STATES		BT AFRICAN ISLAND	
INDIA	BC	MALAWI	BC
USE ((540		USE ((689 7	
BT ASIA			

BT SOUTHERN AFRICA		NIGERIA	BC
ST NYASALAND		USE ((669	
		BT WEST AFRICA	
MASHONALAND	RC	NORTH AFRICA	BC
AT ZIMBABWE		USE ((61	
MAURITIUS	BC	BT AFRICA	
USE ((698 2		NT ALGERIA	
BT AFRICAN ISLANDS		NT EGYPT	
		NT ETHIOPIA	
MICHIGAN	BC	NT MOROCCO	
USE ((73(774		NT SUDAN	
BT NORTH CENTRAL STATES		NT LIBYA	
MIDDLE AND LOWER VOLGA REGION	BC	NORTH AMERICA	BC
USE ((470 4		USE ((7	
BT EUROPEAN USSR		NT CANADA	
MINNESOTA	BC	NT CENTRAL AMERICA	
USE ((73(776		NT UNITED STATES OF AMERICA	
BT NORTH CENTRAL STATES		NT CARIBBEAN TERRITORIES	
MOROCCO	BC	NORT CENTRAL STATES	BC
USE ((61(64		USE ((73(77	
BT NORTH AFRICA		BT UNITED STATES OF AMERICA	
		NT MINNESOTA	
MOZAMBIQUE	BC	NT ILLINOIS	
USE ((676(679		NT MICHIGAN	
BT EAST AFRICA		NORTH EASTERN STATES	BC
NATAL	BC	USE ((73(74	
USE ((680(684		BT UNITED STATES OF AMERICA	
BT SOUTH AFRICA		NT NEW HAMPSHIRE	
NEBRASKA	BC	NORTHERN HEMISPHERE	NC
USE ((73(782		USE ((1-17	
BT WESTERN STATES		BT WORLD	
NETHERLANDS	BC	NORTHERN IRELAND	RC
USE ((492		AT ULSTER	
BT EUROPE		NORWAY	BC
NEW GUINEA	BC	USE ((481	
USE ((95		BT SCANDINAVIA	
NEW HAMPSHIRE	BC	NYASALAND	RC
USE ((73(742		AT MALAWI	
BT NORTH EASTERN STATES		ONTARIO	BC
NEW SOUTH WALES	BC	USE ((713	
USE ((944		BT CANADA	
BT AUSTRALIA		ORANGE FREE STATE	BC
NEW ZEALAND	BC	USE ((680(685	
USE ((931		BT SOUTH AFRICA	
NGAMILAND	RC	OREGON	BC
USE ((681		USE ((73(795	
BT BOTSWANA		BT GREAT BASIN AND PACIFIC STATES	
NIGER	BC	PARAGUAY	BC
USE ((662 6		USE ((892	
BT WEST AFRICA		BT SOUTH AMERICA	

PERSIA AT IRAN	RC	NT VENEZUELA NT BRAZIL NT PARAGUAY	
POLAND USE ((438 BT EUROPE	BC	SOUTH CENTRAL STATES USE ((73(76 BT UNITED STATES OF AMERICA	BC
PORTUGUESE CONGO AT CABINDA	RC	NT TEXAS NT ARKANSAS NT KENTUCKY	
PUERTO RICO USE ((729 5 BT CARIBBEAN TERRITORIES	BC	NT ALABAMA SOUTH EASTERN STATES	BC
QUEENSLAND USE ((943 BT AUSTRALIA	BC	USE ((73(75 BT UNITED STATES OF AMERICA NT FLORIDA	
RHODESIA AT ZIMBABWE	RC	SOUTHERN AFRICA USE ((68 BT AFRICA NT BOTSWANA	BC
SAUDI ARABIA USE ((532 BT ARABIA	BC	NT MALAWI NT SOUTH AFRICA NT SOUTH WEST AFRICA NT SWAZILAND	
SCANDINAVIA USE ((48 BT EUROPE NT DENMARK NT FINLAND NT NORWAY NT SWEDEN	BC	NT ZAMBIA NT ZIMBABWE RHODESIA NT LESOTHO SOUTHERN HEMISPHERE USE ((1-13 BT WORLD	NC
SCOTLAND USE ((411 BT BRITISH ISLES	BC	SOUTH WEST AFRICA/NAMIBIA USE ((688 BT SOUTHERN AFRICA	BC
SENEGAL USE ((663 BT WEST AFRICA	BC	SOVIET FAR EAST AT SIBERIA AND SOVIET FAR EAST	RC
SEYCHELLES USE ((696 BT AFRICAN ISLAND	BC	SUDAN USE ((61(624 BT NORTH AFRICA	BC
SIBERIA AND SOVIET FAR EAST USE ((571 BT ASIATIC USSR	BC	SURINAM USE ((883 BT SOUTH AMERICA	BC
SINAI AT EGYPT	RC	SWAZILAND USE ((683 4 BT SOUTHERN AFRICA	BC
SOUTH AFRICA USE ((680 BT SOUTHERN AFRICA NT CAPE PROVINCE NT NATAL NT TRANSVAAL NT ORANGE FREE STATE	BC	SWEDEN USE ((485 BT SCANDINAVIA TANGANYIKA AT TANZANIA	BC RC
SOUTH AMERICA USE ((8 NT ARGENTINA NT ECUADOR NT SURINAM	BC	TANZANIA USE ((676(678 BT EAST AFRICA RT TANGANYIKA RT ZANZIBAR	BC

TASMANIA	BC	VENEZUELA	BC
USE ((946		USE ((87	
BT AUSTRALIA		BT SOUTH AMERICA	
TEXAS	BC	UZBEK	RC
USE ((73&764		AT CENTRAL ASIAN UNION REPUBLICS	
BT SOUTH CENTRAL STATES			
TOBAGO	RC	VICTORIA	BC
AT TRINIDAD TOBAGO		USE ((945	
		BT AUSTRALIA	
TRANSVAAL	BC	WALES	BC
USE ((680(682		USE ((429	
BT SOUTH AFRICA		BT BRITISH ISLES	
TRINIDAD TOBAGO	BC	WEST AFRICA	BC
USE ((729 87		USE ((66	
AT CARIBBEAN TERRITORIES		BT AFRICA	
TURKEY	BC	NT GHANA	
USE ((560		NT NIGERIA	
BT ASIA MINOR		NT LIBERIA	
		NT NIGER	
UGANDA	BC	NT SENEGAL	
USE ((676 1		NT IVORY COAST	
BT EAST AFRICA			
UKRAINE	BC	WESTERN STATES	BC
USE ((477		USE ((73(78	
BT EUROPEAN USSR		BT UNITED STATES OF AMERICA	
		NT COLORADO	
ULSTER	BC	NT KANSAS	
USE ((416		NT NEBRASKA	
BT BRITISH ISLES			
ST NORTHERN IRELAND		WEST GERMANY	BC
		USE ((430 1	
UNION OF SOVIET SOCIALIST REPUBLICS	RC	BT GERMANY	
AT USSR		ST BUNDESREPUBLIK DEUTSCHLAND	
UNITED KINGDOM	RC	WORLD	BC
AT BRITISH ISLES		USE ((100	
		NT NORTHERN HEMISPHERE	
UNITED STATES OF AMERICA	BC	NT SOUTHERN HEMISPHERE	
USE ((73		RT GLOBE	
BT NORTH AMERICA		RT EARTH	
NT NORTH CENTRAL STATES			
NT NORTH EASTERN STATES		ZAIRE	BC
NT GREAT BASIN AND PACIFIC STATES		USE ((675	
NT SOUTH CENTRAL STATES		BT CENTRAL AFRICA	
NT SOUTH EASTERN STATES		RT BELGIAN CONGO	
NT WESTERN STATES			
USSR	BC	ZAMBIA	BC
USE ((47		USE ((689 4	
USE ((57		BT SOUTHERN AFRICA	
NT ASIATIC USSR			
NT EUROPEAN USSR		ZANZIBAR	RC
ST UNION OF SOVIET SOCIALIST		AT TANZANIA	
REPUBLICS			
UTAH	BC	ZIMBABWE	BC
USE ((73(792		USE ((689 1	
BT PACIFIC STATES		BT SOUTHERN AFRICA	
		ST RHODESIA	
		PLAIN	NC
		USE PLAIN	
		BT LAND FORM	

PLAN	NC	PLANT INVASION AND ENCROACHMENT	BC
USE PLAN		USE 581 524 2 (Synecology)	
AT LANDSCAPE PLANNING		BT SYNECOLOGY	
BT CHART. MAP. PLAN		NT ENCROACHMENT	
		NT INVASION	
PLANT	BC	NT ERADICATION	
USE 581 52:581 072 (Environment)			
AT FORAGE PLANT		PLANT MIGRATION	BC
AT PLANT ECOLOGY		USE 581 522 6 (Autecology)	
AT SOIL-PLANT RELATIONSHIP		BT AUTECOLOGY	
BT BIOTIC FACTOR		NT REPRODUCTION	
NT PLANT COMPETITION		NT DISTRIBUTION	
NT PLANT MORTALITY			
NT WATER WEED		PLANT MORPHOLOGY	BC
RT VEGETATION		USE 581 522:581 4 (Autecology)	
		BT AUTECOLOGY	
PLANT ADJUSTMENT	BC	NT PLANT FORM	
USE 581 522 4 (Autecology)		NT PLANT ORGAN	
BT AUTECOLOGY			
NT PLANT TEMPERATURE		PLANT MORTALITY	NC
RT PHYSIOLOGICAL ADAPTATION		USE MORTALITY	
		BT PLANT	
PLANT COMPETITION	NC		
USE COMPETITION		PLANT ORGAN	BC
BT PLANT		USE 581 522:581 43	
		USE 581 522:581 44	
PLANT ECOLOGY	BC	USE 581 522:581 45	
USE 581 5		USE 581 522.581 46 (Autecology)	
NT AUTECOLOGY		USE 581 522:581 47	
NT EVOLUTIONARY ECOLOGY		USE 581 522.581 48	
NT ENVIRONMENT		USE 581 522:581 49	
NT SYNECOLOGY		BT PLANT MORPHOLOGY	
NT ECOLOGICAL FORMATION		NT FLOWER	
		NT FRUIT	
PLANT EXUDATE	BC	NT LEAF	
USE 581 52:581 135 (Environment)		NT OTHER ORGAN	
BT BIOTIC FACTOR		NT ROOT	
NT ALLELOPATHY		NT SEED	
NT OIL		NT STEM	
PLANT FORM	BC	PLANT SUCCESSION	BC
USE 581 522:581 412 (Autecology)		USE 581 524 3 (Synecology)	
BT PLANT MORPHOLOGY		BT SYNECOLOGY	
NT DECIDUOUS		NT CLIMAX AND SERAL COMMUNITIES	
NT EPIPHYTE		NT FIRE	
NT EVERGREEN		NT PIONEER	
NT FERN		NT OLD LAND	
NT GEOPHYTE		RT COMMUNITY DYNAMICS	
NT HALOPHYTE		RT VEGETATION DYNAMICS	
NT LIMNOPHYTE			
NT GROWTH FORM		PLANT TEMPERATURE	NC
NT GEOXYLIC SUFFRUTEX		USE PLANT TEMPERATURE	
NT MACROPHYTE		BT PLANT ADJUSTMENT	
NT POISON			
NT RAUNKIAER FORM		PLANT/VEGETATION INDICATOR	BC
NT WEED		USE 581 524:54-4 (Synecology)	
NT XEROPHYTE		BT SYNECOLOGY	
NT MANGROVE		NT AIR POLLUTION	
NT MEDICINAL		NT LICHEN	
NT SUCCULENT		NT COPPER	
NT SUFFRUTEX		NT MOSS	
NT PERIPHYTON		NT NICKEL	

PLANT-WATER RELATION	BC	POLAR ORDINATION	NC
USE 581 522:631 671 (Autecology)		USE POLAR ORDINATION	
BT AUTECOLOGY		BT ASSOCIATION ANALYSIS	
NT GUTTATION			
NT WATER BALANCE		POLLINATION	NC
NT TRANSPIRATION		USE POLLINATION	
		BT REPRODUCTION	
PLATEAU	NC	POLLUTION	NC
USE PLATEAU		USE POLLUTION	
BT LAND FORM		AT AIR POLLUTION	
PLEISTOCENE	NC	BT ESTUARY	
USE 581 52:551 791 (Palaeoecology)		BT LAKE	
BT QUATERNARY		BT MARINE	
PLEXUS	NC	BT RIVER	
USE PLEXUS		BT WETLAND	
BT MULTIVARIATE ANALYSIS		BT ECOLOGICAL CONSERVATION	
PLOT	RC	POPULATION	RC
AT PROTECTED PLOT		AT POPULATION ECOLOGY	
RT PERMANENT PLOT		AT POPULATION MODEL	
PLOTLESS	NC	POPULATION ECOLOGY	BC
USE PLOTLESS		USE 581 5:312 (Palaeoecology)	
BT SAMPLING		BT EVOLUTIONARY ECOLOGY	
NT BRIDGE POINT		NT BIOSYSTEMATIC	
NT LINE-INTERCEPT			
NT POINT-QUARTER		POPULATION MODEL	NC
NT WHEEL POINT		USE POPULATION	
NT LINE TRANSECT		BT MODEL	
NT SHOE POINT			
NT POINT CONTACT		POPULATION PLOTTER	NC
		USE POPULATION PLOTTER	
PLOTTER	RC	BT APPARATUS	
AT POPULATION PLOTTER		POTASSIUM	NC
PODZOL	NC	USE POTASSIUM	
USE PODZOL		BT INORGANIC SOIL COMPONENT	
BT SOIL TYPE			
POINT	RC	PRACTICAL	RC
AT BRIDGE POINT		AT PRACTICAL METEOROLOGY	
AT POINT-QUARTER			
AT WHEEL POINT		PRACTICAL METEOROLOGY	BC
AT SHOE POINT		USE 581 52:551 50 (Environment)	
POINT-QUARTER	NC	BT METEOROLOGY	
USE POINT-QUARTER		NT ACTINOMETER	
BT PLOTLESS		NT EVAPORIMETER	
POINT CONTACT	NC	NT HYGROMETER	
USE POINT CONTACT		NT PSYCHROMETER	
BT PLOTLESS		NT FLAG TATTERING	
		NT VECTOPLUVIOMETER	
POISON	NT	PRAIRIE	RC
USE POISON		AT GRASSLAND	
BT PLANT FORM			
NT EFFECT ON STOCK		PRECIPITATION	BC
RT TOXIN		USE 581 52:551 577 (Environment)	
		USE 581 52:551 578	
POLAR	RC	BT AQUEOUS VAPOUR	
AT POLAR ORDINATION		NT PRECIPITATION FORM	
		NT PRECIPITATION VARIATION	
		NT PRECIPITATION SAMPLING	
		NT PRECIPITATION MODEL	

PRECIPITATION FORM USE 581 52:551 578 (Environment) BT PRECIPITATION	BC	BT COMPUTER. PROGRAM. DATA PROCES- SING NT CLUSTERING NT NON CLUSTERING	
PRECIPITATION MODEL USE 574:51:167 7 USE 581 52:551 577 (Environment) USE 581 52:551 578 BT MODEL BT PRECIPITATION	NC	PROPERTY AT CHEMICAL SOIL PROPERTY AT PHYSICAL SOIL PROPERTY	RC
PRECIPITATION SAMPLING USE SAMPLING BT PRECIPITATION	NC	PROTECTED PLOT USE PROTECTED PLOT BT TIME SAMPLING	NC
PRECIPITATION VARIATION USE 581 52:551 577 3 (Environment) BT PRECIPITATION NT SEMI ARID NT DROUGHT NT FLOOD	BC	PROTECTION AT PROTECTED PLOT	RC
PRESSURE AT ATMOSPHERIC PRESSURE AT PRESSURE WATER	RC	PROTEIN USE PROTEIN BT ECOPHYSIOLOGY	NC
PRESSURE WATER USE PRESSURE USE WATER BT HYDROLOGY	NC	PSYCHROMETER USE PSYCHROMETER BT PRACTICAL METEOROLOGY BT APPARATUS BT SOIL WATER	NC
PRIMARY. AT PRIMARY PRODUCTIVITY	RC	PTERIDOPHYTA USE 1st GENUS NO. IN DYER & 88888 PUT IN TAXON FIELD	RC
PRIMARY PRODUCTIVITY USE PRIMARY PRODUCTIVITY BT PRODUCTIVITY NT PHOTOSYNTHESIS	NC	QUADRAT USE QUADRAT BT SAMPLING NT BELT TRANSECT NT NESTED QUADRAT AT PERMANENT QUADRAT	NC
PROCESSING AT DATA PROCESSING	RC	QUALITATIVE OBSERVATION USE 581 524:167 3:519 26 (Synecology) BT SYNTHESIS NT BRAUN-BLANQUET NT UPPSALA SCHOOL NT DISPERSION INDEX RT CONTINENTAL PHYTOSOCIOLOGY	BC
PRODUCTION AT PRODUCTIVITY AT FOREST PRODUCTION	RC	QUALITY AT QUALITATIVE OBSERVATION	RC
PRODUCTIVITY USE 577 4:631 524 84 (Autecology) BT ECOSYSTEM NT PRIMARY PRODUCTIVITY NT SECONDARY PRODUCTIVITY RT PRODUCTION	BC	QUANTITATIVE OBSERVATION USE 581 524:167 3:519 27 (Synecology) BT SYNTHESIS NT MULTIVARIATE ANALYSIS NT UNIVARIATE ANALYSIS	BC
PROFILE AT SOIL PROFILE AT PROFILE DIAGRAM	RC	QUANTITY AT QUANTITATIVE OBSERVATION	RC
PROFILE DIAGRAM USE PROFILE DIAGRAM BT GRAPHIC REPRESENTATION	NC	QUARTER AT POINT-QUARTER	RC
PROGRAM USE PROGRAM	NC	QUATERNARY USE 581 52:551 79 (Palaeoecology) BT STRATIGRAPHY	NC

NT PLEISTOCENE		REFERENCE WORK	BC
NT RECENT		USE ((0 (Reference works and maps)	
RADIATION	BC	NT ALPHABETIC REFERENCE WORK	
USE 581 52:551 521(Environment)		NT SYSTEMATIC REFERENCE WORK	
BT RADIATION. AIR TEMPERATURE		NT BIOGRAPHY	
NT MICROWAVE		REGION	RC
NT LIGHT		AT REGIONAL CLIMATOLOGY	
RADIATION AIR TEMPERATURE	BC	AT REGIONAL ACCOUNT	
USE 581 52:551 52 (Environment)		REGIONAL ACCOUNT	NC
BT METEOROLOGY		USE REGIONAL ACCOUNT	
NT AIR TEMPERATURE		BT PHYTOSOCIOLOGY	
NT RADIATION		REGIONAL CLIMATOLOGY	BC
RAIN	NC	USE 581 52:551 582 (Environment)	
USE RAIN		BT CLIMATOLOGY	
BT RAIN. DRIZZLE		RELATION	RC
RAIN. DRIZZLE	BC	AT SOIL-PLANT RELATIONSHIP	
USE 581 52:551 578 1(Environment)		AT PLANT-WATER RELATION	
BT PRECIPITATION FORM		RELIEF	NC
NT RAIN		USE RELIEF	
NT DRIZZLE		BT LAND FORM	
NT INTERCEPTION		NT ASPECT	
NT PERIODICITY		NT ALTITUDE	
RANGE	RC	NT SLOPE	
AT FORAGE GRASS		RT TOPOGRAPHY	
RAUNKIAER	RC	REMOTE	RC
AT RAUNKIAER FORM		AT REMOTE SENSING	
RAUNKIAER FORM	NC	REMOTE SENSING	BC
USE RAUNKIAER FORM		USE 581 524:167 2:528 7 (Synecology)	
BT PLANT FORM		BT ANALYSIS	
NT GEOPHYTE		NT PHOTOGRAPHY	
NT HELOPHYTE		NT SATELLITE IMAGERY	
RAW HUMUS	RC	REPRESENTATION	RC
AT MOR		AT GRAPHIC REPRESENTATION THEORY	
REACTION	NC	AT GRAPHIC AND CARTOGRAPHIC	
USE REACTION		REPRESENTATION	
BT SOIL REACTION PH		REPRODUCTION	NC
NT HYDRONIUM		USE REPRODUCTION	
NT ALUMINIUM		BT PLANT MIGRATION	
RECENT	NC	NT PARTHENOGENESIS	
USE 581 52:551 799 (Palaeoecology)		NT POLLINATION	
BT QUATERNARY		REQUIREMENT	RC
RECIPROCAL AVERAGING	NC	AT AUTECOLOGICAL REQUIREMENT	
USE RECIPROCAL AVERAGING		AT ANALYTICAL REQUIREMENT	
BT MULTIVARIATE ANALYSIS		AT SYNTHETICAL REQUIREMENT	
RECLAIM	RC	RESEEDING	NT
AT LAND RECLAMATION		USE RESEEDING	
RECOMMENDATION	RC	BT PASTURE MANAGEMENT	
AT STRATIGRAPHIC RECOMMENDATION		RESERVE	RC
REEF	NC	AT NATURE RESERVE	
USE REEF		RESIDUE	RC
BT OCEANOGRAPHY		AT CROP RESIDUE	

RESOURCE	RC	SALT	NC
AT FOREST RESOURCE		USE SALT	
RE-VEGETATION	NT	AT SALT CONTENT	
USE RE-VEGETATION		BT AIRBORNE PARTICLE	
BT LAND RECLAMATION		SALT CONTENT	BC
AT AFFORESTATION		USE 581 52:631 413 3	
REVIEW	NT	BT ION EXCHANGE	
USE REVIEW		RT SALINITY	
BT BIBLIOGRAPHY		SAMPLE SIMILARITY	NC
RH	BC	USE SIMILARITY	
USE 581 52:631 413 5 (Environment)		BT SAMPLING	
BT ION EXCHANGE		SAMPLING	BC
ST OXIDATION REDUCTION POTENTIAL		USE 581 524:167 2.001 4 (Synecology)	
RHODOPHYCEAE	NC	BT ANALYSIS	
USE RHODOPHYCEAE		AT SOIL SAMPLING	
BT ALGA		AT PRECIPITATION SAMPLING	
RING	RC	NT LEAF AREA DETERMINATION	
AT GROWTH RING		NT PLOTLESS	
RIVER	BC	NT QUADRAT	
USE 577 472:551 482 2 (Veg. descr.)		NT SAMPLE SIMILARITY	
BT AQUATIC VEGETATION		NT TIME SAMPLING	
NT DELTA		NT BUOYANCY TECHNIQUE	
NT EUTROPHICATION		NT GIRDLING	
NT POLLUTION		SAND	NC
NT SILTATION		USE SAND	
ROAD	RC	BT SOIL TYPE	
AT VERGE		SATELLITE IMAGERY	NC
ROCK	RC	USE SATELLITE IMAGERY	
AT PETROLOGY		BT REMOTE SENSING	
ROCK DETERMINATION	BC	NT LANDSAT	
USE 581 52:552 1 (Environment)		SATURATED	NC
BT PETROLOGY		USE SATURATED	
NT PETROGENESIS		BT PHYSICAL SOIL PROPERTY	
RODENT	NC	SAVANNA	NC
USE RODENT		USE SAVANNA	
BT MAMMAL		AT WOODLAND	
ROOT	BC	BT FORMATION CLASS	
USE 581 522:581 43 (Autecology)		RT BUSHVELD	
BT PLANT ORGAN		SCALE	RC
NT ROOT GROWTH		AT EXPOSURE SCALE	
NT NITROGEN FIXATION		SCHOOL	RC
ROOT GROWTH	NC	AT UPPSALA SCHOOL	
USE GROWTH		SCRIBE	NC
BT ROOT		USE SCRIBE	
RUNOFF	NC	BT APPARATUS	
USE RUNOFF		SCRUB	RC
BT HYDROGRAPHY		AT SCRUB CONTROL	
SALINITY	RC	AT WOODLAND/SAVANNA/SCRUB BIOME	
AT SALT CONTENT		SCRUB CONTROL	NC
		USE SCRUB CONTROL	
		BT ECOLOGICAL CONSERVATION	

SEA AT MARINE AT OCEANOGRAPHY	RC	SHOE POINT USE SHOE POINT BT PLOTLESS	NC
SEASON USE SEASON BT CLIMATIC VARIATION RT AUTUMN RT SPRING	NC	SHOOT GROWTH USE SHOOT GROWTH BT STATISTICAL PARAMETER	NC
SECONDARY AT SECONDARY PRODUCTIVITY	RC	SHORE USE SHORE BT LAND FORM NT SHORE MANAGEMENT NT MARINE SHORE RT BEACH RT COAST	NC
SECONDARY PRODUCTIVITY USE SECONDARY PRODUCTIVITY BT PRODUCTIVITY	NC	SHORE MANAGEMENT USE MANAGEMENT BT SHORE	NC
SECONDARY SUCCESSION USE SECONDARY SUCCESSION BT SERAL COMMUNITY	NC	SHRUB USE SHRUB BT GROWTH FORM	NC
SEDIMENT AT SEDIMENTARY ROCK	RC	SHRUBLAND AT DWARF SHRUBLAND	RC
SEDIMENTARY ROCK USE 581 52:552 5 (Environment) BT PETROLOGY NT DOLOMITE NT LIMESTONE NT CALCRETE	BC	SILTATION USE SILTATION BT RIVER	NC
SEDIMENTATION USE SEDIMENTATION BT PHYSICAL FACTOR (SOIL)	NC	SILVICULTURE USE SILVICULTURE BT FORESTRY	NC
SEED USE 581 522:581 48 (Autecology) BT PLANT ORGAN NT SEED DISPERSAL	BC	SIMILARITY AT SAMPLE SIMILARITY	RC
SEED DISPERSAL USE SEED DISPERSAL BT SEED	NC	SIMULATION USE SIMULATION BT MODEL	NC
SEGREGATION USE SEGREGATION BT VARIATION	NC	SLEEP MOVEMENT USE SLEEP MOVEMENT BT PHENOLOGY	NC
SEMI AT SEMI ARID	RC	SLOPE USE SLOPE BT RELIEF	NC
SEMI ARID USE SEMI ARID BT PRECIPITATION VARIATION	NC	SLUDGE DISPOSAL USE SLUDGE DISPOSAL BT WASTE	NC
SENSING AT REMOTE SENSING	RC	SNAIL USE SNAIL BT ANIMAL	NC
SERAL COMMUNITY USE 581 524 3:581 555 3 (Synecology) BT CLIMAX AND SERAL COMMUNITIES NT SECONDARY SUCCESSION	BC	SOIL USE 581 52:631 4 (Environment) BT ENVIRONMENT NT SOIL ANALYSIS NT CHEMICAL SOIL PROPERTY NT PEDOGENESIS NT PHYSICAL SOIL PROPERTY	BC
SERE AT SERAL COMMUNITY	RC		

NT SOIL BIOLOGY		BT SOIL PROFILE	
NT SOIL CLASSIFICATION			
NT SOIL FERTILITY		SOIL MAPPING	BC
NT SOIL SURVEY, LAND CLASSIFICATION AND USE		USE 581 52:631 471 (Environment)	
AT EDAPHIC		BT SOIL SURVEY, LAND CLASSIFICATION AND USE	
NT SOIL MICRO-ENVIRONMENT			
SOIL AERATION	RC	SOIL MICRO-ENVIRONMENT	NC
AT SOIL ATMOSPHERE		USE SOIL MICRO-ENVIRONMENT	
		BT SOIL	
SOIL ANALYSIS	BC	SOIL MOISTURE	BC
USE 581 52:631 42 (Environment)		USE 581 52:551 579 (Environment)	
BT SOIL		BT AQUEOUS VAPOUR	
NT SOIL SAMPLING		NT LIQUID	
NT HYDROMETER		NT CAPILLARY	
		AT HYDROLOGY	
SOIL ATMOSPHERE	BC	AT SOIL WATER	
USE 581 52:631 433 (Environment)			
BT PHYSICAL SOIL PROPERTY		SOIL MOISTURE SPATIAL VARIATION	NC
RT SOIL AERATION		USE SPATIAL	
		BT SOIL MOISTURE VARIATION	
SOIL BIOLOGY	BC		
USE 581 52:631 46 (Environment)		SOIL MOISTURE VARIATION	NC
BT SOIL		USE VARIATION	
NT MYCOPHYTA		BT SOIL MOISTURE	
		NT SOIL MOISTURE SPATIAL VARIATION	
SOIL CLASSIFICATION	BC	SOIL PROFILE	BC
USE 581 52:631 44 (Environment)		USE 581 52:631 472 (Environment)	
BT SOIL		BT SOIL SURVEY, LAND CLASSIFICATION AND USE	
NT SOIL TYPE		NT A-C HORIZON	
SOIL CONSERVATION	NC	NT LITTER, ORGANIC, HORIZON	
USE SOIL CONSERVATION		NT SOIL LAYER	
BT SOIL FERTILITY			
SOIL DEVELOPMENT	RC	SOIL REACTION	NC
AT PEDOGENESIS		USE REACTION	
		BT SOIL REACTION pH	
SOIL DISTURBANCE	NC		
USE DISTURBANCE		SOIL REACTION pH	BC
BT SOIL FERTILITY		USE 581 52:631 415 (Environment)	
		BT CHEMICAL SOIL PROPERTY	
SOIL EROSION	BC	NT pH	
USE EROSION		NT SOIL REACTION	
BT SOIL FERTILITY			
NT WIND EROSION		SOIL SAMPLING	BC
		USE 581 52:631 42.05 (Environment)	
SOIL EXHAUSTION	BC	BT SOIL ANALYSIS	
USE SOIL EXHAUSTION			
BT SOIL FERTILITY		SOIL STRUCTURE	BC
		USE 581 52:631 434 (Environment)	
SOIL FERTILITY	BC	BT PHYSICAL SOIL PROPERTY	
USE 581 52:631 45 (Environment)		NT GILGAI	
BT SOIL			
NT SOIL CONSERVATION		SOIL SURVEY	BC
NT SOIL DISTURBANCE		USE 581 52:631 473 (Environment)	
NT SOIL EROSION		BT SOIL SURVEY, LAND CLASSIFICATION AND USE	
NT SOIL EXHAUSTION		NT BULK-DENSITY DETERMINATION	
SOIL FORMATION	RC		
AT PEDOGENESIS		SOIL SURVEY, LAND CLASSIFICATION AND USE	BC
SOIL LAYER	BC	USE 581 52:631 47 (Environment)	
USE 581 52:631 472 7 (Environment)		BT SOIL	

NT LAND CLASSIFICATION AND USE		SPECIES ABUNDANCE	RC
NT SOIL MAPPING		AT ABUNDANCE	
NT SOIL PROFILE			
NT SOIL SURVEY		SPECIES-AREA	NC
SOIL TEMPERATURE	RC	USE SPECIES-AREA	
AT THERMAL SOIL PROPERTY		BT STATISTICAL PARAMETER	
		NT SPECIES-AREA ESTIMATION	
SOIL TEXTURE	BC	SPECIES-AREA ESTIMATION	NC
USE 581 52:631 435 (Environment)		USE ESTIMATION	
BT PHYSICAL SOIL PROPERTY		BT SPECIES-AREA	
NT PARTICLE			
SOIL TYPE	BC	SPECIES-CORRELATION	NC
USE TYPE		USE SPECIES-CORRELATION	
BT SOIL CLASSIFICATION		BT STATISTICAL PARAMETER	
NT PODZOL			
NT SAND		SPECIES DISTRIBUTION MAPPING	BC
NT HARDPAN		USE 581 522:528 9 (Autecology)	
		BT AUTECOLOGY	
SOIL WATER	BC	SPECIES DIVERSITY	RC
USE 581 52:631 432 (Environment)		AT DIVERSITY	
BT PHYSICAL SOIL PROPERTY			
NT CAPILLARY		SPECIES FORMATION	RC
AT HYDROLOGY		AT SPECIATION	
AT SOIL MOISTURE			
NT PSYCHROMETER		SPECTRAL ANALYSIS	NC
		USE SPECTRAL	
SOUND	RC	BT STATISTICAL PARAMETER	
AT SOUND ABSORPTION			
		SPECTRUM	RC
SOUND ABSORPTION	NC	AT SPECTRAL ANALYSIS	
USE SOUND ABSORPTION			
BT LANDSCAPE PLANNING		SPELEOLOGY	NC
		USE SPELEOLOGY	
SOUR	RC	BT LAND FORM	
AT SOUR GRASS			
		SPOIL	NC
SOUR BUSHVELD	RC	USE SPOIL	
AT SOUR GRASS		BT LAND RECLAMATION	
		RT MINE DUMP	
SOUR GRASS	NC	NT ARSENIC	
USE SOUR GRASS			
BT GRASS			
RT SOUR BUSHVELD		SPRING	RC
RT SOUR GRASSVELD		AT SEASON	
SOUR GRASSVELD	RC	STATISTIC	RC
AT SOUR GRASS		AT STATISTICAL PARAMETER	
SPACE	RC	STATISTICAL PARAMETER	BC
AT SOIL MOISTURE SPATIAL VARIATION		USE 581 524:167 2:519 28 (Synecology)	
		BT ANALYSIS	
SPECIATION	BC	NT ABUNDANCE	
USE 581 5:575 3/7 (Palaeoecology)		NT COVER	
BT EVOLUTIONARY ECOLOGY		NT DENSITY	
RT SPECIES FORMATION		NT PATTERN	
		NT SPECIES-AREA	
SPECIES	RC	NT SPECTRAL ANALYSIS	
AT SPECIES DISTRIBUTION MAPPING		NT SPECIES-CORRELATION	
AT SPECIATION		NT DISTRIBUTION	
AT SPECIES-AREA		NT EXPOSURE SCALE	
RT ENDANGERED SPECIES		NT FREQUENCY	
		NT DIVERSITY	
		NT SHOOT GROWTH	

STAVE-POINT USE STAVE-POINT BT APPARATUS	NC	SULPHUR USE SULPHUR BT ECOPHYSIOLOGY	NC
STEM USE 581 522:581 44 (Autecology) BT PLANT ORGAN	BC	SURFACE AT SURFACE WIND AT SURFACE WATER	RC
STOCK AT EFFECT ON STOCK	RC	SURFACE WATER AT HYDROGRAPHY	RC
STOMATA USE STOMATA BT LEAF	NC	SURFACE WIND USE SURFACE WIND BT WIND	NC
STRATIFICATION USE STRATIFICATION BT VERTICAL ZONATION	NC	SURVEY AT SOIL SURVEY	RC
STRATIGRAPHIC MAPPING USE MAP BT STRATIGRAPHY RT GEOLOGICAL MAPPING	NC	SWAMP AT WETLAND	RC
STRATIGRAPHIC RECOMMENDATION USE RECOMMENDATION BT STRATIGRAPHY	NC	SWARD USE SWARD BT FORAGE GRASS	NC
STRATIGRAPHY USE 581 52:551 7 (Palaeoecology) NT PALAEOZOIC NT MESOZOIC NT TERTIARY NT QUATERNARY NT STRATIGRAPHIC MAPPING NT STRATIGRAPHIC RECOMMENDATION RT GEOLOGICAL TIMESCALE	BC	SWEET AT SWEET GRASS	RC
STRIP AT STRIPMINE	RC	SWEET GRASS USE SWEET GRASS BT GRASS RT SWEET GRASSVELD	NC
STRIPMINE USE STRIPMINE BT LAND RECLAMATION	NC	SWEET GRASSVELD AT SWEET GRASS	RC
STRUCTURE USE STRUCTURE AT ATMOSPHERIC STRUCTURE AT EARTH STRUCTURE AT SOIL STRUCTURE BT VERTICAL ZONATION NT VEGETATION GRADIENT RT FORM	NC	SYMBIOSIS USE 581 52:581 557 (Environment) BT BIOTIC FACTOR NT COMMENSALISM NT MUTUALISM NT PARASITISM	BC
SUCCESSION AT PLANT SUCCESSION	RC	SYNECOLOGICAL THEORY USE 581 524:581 55.001 1 (Synecology) BT SYNECOLOGY NT ASSOCIATION THEORY NT CLASSIFICATION THEORY NT CONTINUUM THEORY	BC
SUCCULENT USE SUCCULENT BT PLANT FORM	NC	SYNECOLOGY USE 581 524 (Synecology) BT PLANT ECOLOGY NT ANALYSIS NT COMMUNITY COMPETITION NT PLANT INVASION AND ENCROACH- MENT	BC
SUFFRUTEX USE SUFFRUTEX BT PLANT FORM	NC	NT PLANT SUCCESSION NT PLANT/VEGETATION INDICATOR NT SYNECOLOGICAL THEORY NT SYNTHESIS NT ZONATION	
		SYNTAXONOMIC ASSOCIATION USE SYNTAXONOMIC ASSOCIATION	NC

BT PHYTOSOCIOLOGY		THERMAL	RC
NT LEMNETUM		AT THERMAL SOIL PROPERTY	
SYNTAXONOMY	RC	THERMAL SOIL PROPERTY	BC
AT SYNTAXONOMIC ASSOCIATION		USE 581 52:631 436 (Environment)	
SYNTHESIS	BC	BT PHYSICAL SOIL PROPERTY	
USE 581 524:167 3 (Synecology)		RT TEMPERATURE	
BT SYNECOLOGY		RT SOIL TEMPERATURE	
NT GRAPHIC REPRESENTATION THEORY		THERMODYNAMICS	NC
NT HABITAT CORRELATION		USE THERMODYNAMICS	
NT QUALITATIVE OBSERVATION		BT ATMOSPHERIC STRUCTURE	
NT QUANTITATIVE OBSERVATION		MECHANICS THERMODYNAMICS	
NT SYNTHETIC REQUIREMENT		THORN	NC
NT VEGETATION MAPPING THEORY		USE THORN	
SYNTHETIC REQUIREMENT	BC	BT OTHER ORGAN	
USE 581 524:167 3.001 2 (Synecology)		TIMBER	NC
BT SYNTHESIS		USE TIMBER	
NT APPARATUS		BT FORESTRY	
SYSTEM	RC	AT TREE	
AT SYSTEMATIC BOTANY		TIME	RC
AT SYSTEMATIC REFERENCE WORK		AT TIME SAMPLING	
SYSTEMATIC BOTANY	BC	TIME SAMPLING	NC
USE 582 (Autecology)		USE TIME	
NT ALGA		BT SAMPLING	
NT MYCOPHYTA		NT PROTECTED PLOT	
NT BACTERIUM		RT PERMANENT PLOT	
NT CYANOPHYTA		RT PERMANENT QUADRAT	
NT LICHEN		TOPOGRAPHICAL GRADIENT	RC
SYSTEMATIC REFERENCE WORK	BC	AT SLOPE	
USE ((02 (Reference works and maps)		TOPOGRAPHY	RC
BT REFERENCE WORK		AT RELIEF	
TATTER	RC	RT FORM	
AT FLAG TATTERING		TOXIN	RC
TEMPERATURE	RC	AT POISON	
AT AIR TEMPERATURE		TRANSECT	RC
AT THERMAL SOIL PROPERTY		AT BELT TRANSECT	
AT PLANT TEMPERATURE		AT LINE TRANSECT	
TENDRIL	NC	TRANSPIRATION	NC
USE TENDRIL		USE TRANSPIRATION	
BT OTHER ORGAN		BT PLANT-WATER RELATION	
TERMITE	NC	NT EVAPOTRANSPIRATION	
USE TERMITE		TREE	NC
BT INSECT		USE TREE	
TERTIARY	NC	BT GROWTH FORM	
USE 581 52:551 78 (Palaeoecology)		NT TREE GROWTH	
BT STRATIGRAPHY		AT TIMBER	
TEXTURE	RC	RT WOOD	
NT SOIL TEXTURE		TREE GROWTH	NC
RT FABRIC		USE TREE GROWTH	
THEORY	RC	BT TREE	
AT PLANT ECOLOGICAL THEORY AND		NT GROWTH RING	
METHODS			

TRIASSIC	BC	BT PRACTICAL METEOROLOGY	
USE 551 761 (Palaeoecology)			
BT STRATIGRAPHY		VEGETATION	NC
TROPICAL	RC	USE VEGETATION	
AT TROPICAL FOREST		AT VEGETATION MAPPING	
		BT ECOLOGICAL CONSERVATION	
TROPICAL FOREST	NC	NT ENDANGERED VEGETATION	
USE TROPICAL FOREST		AT RE-VEGETATION	
BT FOREST		RT PLANT	
TYPE	RC	VEGETATION CLASSIFICATION	NC
AT CLIMATE TYPE		USE VEGETATION CLASSIFICATION	
AT SOIL TYPE		BT PHYTOSOCIOLOGY	
AT LAND TYPE		VEGETATION DYNAMICS	RC
		AT PLANT SUCCESSION	
UNIVARIATE ANALYSIS	NC	VEGETATION GRADIENT	NC
USE UNIVARIATE ANALYSIS		USE GRADIENT	
BT QUANTITATIVE OBSERVATION		BT STRUCTURE	
UNSATURATED	NC	VEGETATION MAPPING THEORY	BC
USE UNSATURATED		USE 581 524:167 3:528 9 (Synecology)	
BT PHYSICAL SOIL PROPERTY		BT SYNTHESIS	
UPPSALA SCHOOL	NC	VELOCITY	RC
USE UPPSALA SCHOOL		AT WIND VELOCITY	
BT QUALITATIVE OBSERVATION			
USE	RC	VENATION	NC
AT LAND CLASSIFICATION AND USE		USE VENATION	
RT UTILIZATION		BT LEAF	
UTILIZATION	RC	VERGE	NC
AT LAND CLASSIFICATION AND USE		USE VERGE	
RT USE		BT ENVIRONMENTAL MANAGEMENT	
VALLEY	NC	VERTICAL	RC
USE VALLEY		AT VERTICAL ZONATION	
AT VALLEY WIND			
BT LAND FORM		VERTICAL ZONATION	BC
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VALLEY WIND	NC	BT ZONATION	
USE VALLEY WIND		NT STRATIFICATION	
BT WIND		NT STRUCTURE	
VAPOUR	RC	VIRUS	NC
AT AQUEOUS VAPOUR		USE VIRUS	
		BT BACTERIUM	
VARIABILITY	NC	VLEI	RC
USE VARIABILITY		AT WETLAND	
BT BIOMETRY			
AT VARIATION		WARM	NC
VARIATION	BC	USE WARM	
USE 581 5:575 2 (Palaeoecology)		BT TEMPERATURE	
BT EVOLUTIONARY ECOLOGY			
AT CLIMATIC VARIATION		WASP	NC
AT PRECIPITATION VARIATION		USE WASP	
AT VARIABILITY		BT INSECT	
AT SOIL MOISTURE VARIATION			
NT MUTATION		WASTE	NC
VECTOPLUVIOMETER	NC	USE WASTE	
USE VECTOPLUVIOMETER		BT ECOLOGICAL CONSERVATION	
		NT SLUDGE DISPOSAL	

WATER	RC	WILD ANIMAL	NC
AT PLANT-WATER RELATION		USE WILD	
AT SURFACE WATER		BT ANIMAL	
AT SOIL WATER			
AT HYDROLOGY		WIND	BC
AT WATER WEED		USE 581 52:551 55 (Environment)	
RT AQUATIC		BT METEOROLOGY	
WATER BALANCE	NC	NT SURFACE WIND	
USE WATER BALANCE		NT AIRBORNE PARTICLE	
BT PLANT-WATER RELATION		NT MOUNTAIN WIND	
NT WATER BALANCE ESTIMATION		NT VALLEY WIND	
		NT BLOWDOWN	
WATER BALANCE ESTIMATION	NC	NT WIND VELOCITY	
USE ESTIMATION		NT AIR LAYER	
BT WATER BALANCE		RT WIND EROSION	
WATER SUPPLY	NC	WIND EROSION	NC
USE WATER SUPPLY		USE WIND	
BT HYDROLOGY		BT SOIL EROSION	
WATER WEED	NC	WIND VELOCITY	NC
USE WATER WEED		USE VELOCITY	
BT PLANT		BT WIND	
WEATHER	RC	WOOD	RC
AT METEOROLOGY		AT TREE	
WEED	NC	WOODLAND	NC
USE WEED		USE WOODLAND	
AT WATER WEED		BT FORMATION CLASS	
BT PLANT FORM		AT WOODLAND/SAVANNA/SCRUB BIOME	
BT HORTICULTURE		RT BUSHVELD	
		RT SAVANNA	
WEEDKILLER	RC	WORK	RC
AT HERBICIDE		AT REFERENCE WORK	
WETLAND	BC	XEROPHYTE	NC
USE 577 472:551 481 2 (Veg. descr.)		USE XEROPHYTE	
AT BOG		BT PLANT FORM	
AT MARSH		RT DESICCATION TOLERANT PLANT	
AT SWAMP			
AT VLEI		ZINC	NC
BT AQUATIC VEGETATION		USE ZINC	
NT EUTROPHICATION		BT NUTRIENT CYCLING	
NT POLLUTION		BT INORGANIC SOIL COMPONENT	
		BT MICRONUTRIENT	
WHEEL	RC	ZONATION	BC
AT WHEEL POINT		USE 581 524 4 (Synecology)	
WHEEL POINT	NC	BT SYNECOLOGY	
USE WHEEL POINT		NT HORIZONTAL ZONATION	
BT PLOTLESS		NT VERTICAL ZONATION	
WILD	RC	ZÜRICH-MONTPPELLIER SCHOOL	RC
AT WILD ANIMAL		AT BRAUN-BLANQUET	

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MEMOIRS OF THE BOTANICAL SURVEY OF SOUTH AFRICA
MEMOIRS VAN DIE BOTANIESE OPNAME VAN SUID-AFRIKA

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